

1750
T-W-BOYD & SON

27 NOTRE DAME ST. WEST. MONTREAL



F5012
1918
B789
1918-1919

The EDITH and LORNE PIERCE
COLLECTION of CANADIANA



Queen's University at Kingston

Sporting Goods Catalogue. If you are interested in any Out-door Sport you should have one of these Catalogues. We will mail one free on receipt of postal card or letter.

GOODS BY MAIL

THE Parcel Post is now in splendid working order. On the inside back cover you will find the Parcel Post rates for all Canada.

When ordering goods to be sent by mail, if you have no account with us, send ample money to prepay postage.

We do not charge up small accounts.

Delay will be avoided by remitting sufficient money; your change will be refunded the same day as your order is shipped.

This rule may seem arbitrary, but handling hundreds of orders as we do, we must simplify business as much as possible, in order to get the goods out quickly.

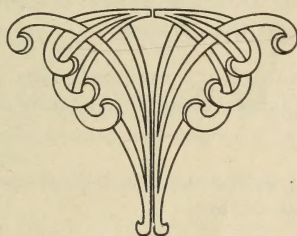
T. W. BOYD & SON

Bicycles

AND

BICYCLE SUNDRIES

1918-1919



27 NOTRE DAME STREET WEST
MONTREAL

LP
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SPECIAL NOTICE

On account of the war which is now in existence, we may have some difficulty in procuring supplies of Bicycle goods from England. We have made arrangements if it should occur that English goods do not arrive on time, we will fill orders with goods of Canadian or American make, of equal or higher value, for the prices given in the catalogue.

We may have to substitute various goods and we crave the indulgence of our customers until the trade of the world is on a more firm basis.

We assure you that your interests will always receive our best and most careful attention.

Yours very truly,

T. W. BOYD & SON.

Prices Subject to Change Without Notice

TERMS

Unless otherwise arranged, terms are strictly net cash with order.

Credit extended only to those who are well rated in Dun's or Bradstreet's, or who can furnish satisfactory Montreal references.

Where credit is extended, our terms are NET 30 DAYS, and all accounts are subject to draft on due date.

REMITTANCES

All remittances should be made by draft, postal or express money order.

Orders to be shipped by express C. O. D., or by freight with draft against bill of lading, must be accompanied by sufficient cash to guarantee transportation charges both ways.

SHIPPING INSTRUCTIONS

When sending in an order, give the name of your Post-office; also, of your Express office. If your office is a Flag Station, send ample money to prepay charges, as we do not prepay any charges.

State on order whether goods are to be shipped by freight, express or mail.

Refer to inside back cover for Postal rates. The amount to prepay postage must be included with the order.

Our responsibility ceases when goods are delivered to transportation companies or delivered in post office.

All claims for shortage or imperfection must be made at time goods are received, otherwise no claim will be allowed.

All goods returned to us must be **prepaid**. You should distinctly tag them with your name and address, and advise us of their return.

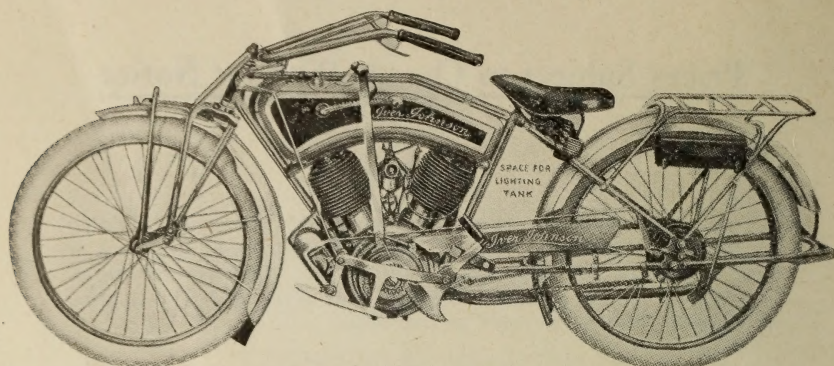
BACK ORDERS

When we are unable to fill an order complete, we put unfilled portion on back order, and notify you of shortage, and, unless otherwise instructed, will ship balance of order at our earliest convenience.

ALL PREVIOUS QUOTATIONS CANCELLED

3027508

Iver Johnson Motor Cycles



7-8 H.P. IVER JOHNSON TWO-SPEED TWIN Model 16-7 T.S.

Specifications

IVER JOHNSON TWO-SPEED TWIN

7-8 H.P. Model 16-7 T.S. \$350.00

Except for the two-speed feature the specifications are the same as those of the regular Twin Model 16-7.

Two-speed geared at $3\frac{3}{4}$ -1 on high and $6\frac{1}{2}$ -1 on low.

Eclipse two-speed attachment.

Specifications

IVER JOHNSON TWIN

7-8 H.P. Model 16-7. \$315.00

Motor—Iver Johnson, $7\frac{1}{2}$ H.P., $3\frac{1}{4}$ inch bore, $3\frac{3}{4}$ inch stroke. Long stroke and compact crank construction permit very high compression, resulting in exceptional power, speed, flexibility and long life.

Cylinders—Cast integral with head from finest quality of gray iron. Accurately bored and ground glass smooth. Very large cooling surfaces, the air circulating completely around valve chambers. Cylinders offset to allow left fly-wheel to splash oil into forward cylinder, and right flywheel into rear cylinder, insuring perfect oiling of both cylinders.

Crank—Double-crank pin allows one piston to complete its exhaust stroke at the same instant that the other piston completes its power stroke. Results in a perfectly even delivery of power, with no wastage.

Crank Case—Oil tight, and made of aluminum with a removable oil window which is fitted to the plug so plug can be removed without disturbing glass for washing out crank case.

Pistons—Each has three eccentric rings, finished by special process. Wrist pins $1\frac{1}{2}$ inch by 1 inch, hollow and glass hard, being held in place by large taper head screws and positively locked.

Pitman Rods—Drop forged, I-beam pattern, and extra long, preventing excessive side piston thrust. Has deep oil channel on each side, conducting oil to the crank and wrist pins, and is fitted with bronze bearings.

Flywheels—Perfectly turned and balanced, the weight, 22 pounds, being chiefly in the rim. Left flywheel positively oils the front cylinder and right flywheel oils the rear cylinder.

Bearings—Fine phosphor bronze, the crank shaft and pins longest and largest in any motorcycle and are integral with the crank, made of Vanadium steel left soft to insure great strength and have glass hard sleeves shrunk onto the crank shaft, absolutely preventing wear. All wearing parts interchangeable. The crank shaft and pins constantly float in oil which is supplied by splash of flywheel.

Valves—All valves are mechanically operated, are interchangeable, and are forged from nickel steel. The valves are $1\frac{3}{4}$ inch diameter, a 30 degree seat and $\frac{1}{4}$ inch lift. Valve stems are protected from burnt gases and carbon by outer sleeves. The stems extra long and hardened on lower ends and run in long hardened sleeves with provision for oiling stems.

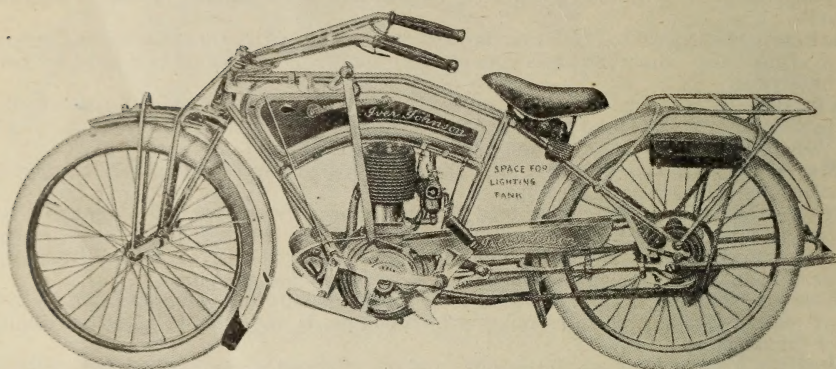
All prices in this catalogue are net.

Iver Johnson Motor Cycles

- Valve Cams**—All cams and internal gear are forged from a single piece of Vanadium steel, wearing parts are large and substantial. Cams are arranged around the periphery of an internal gear and the large diameter gives a quick opening and quick closing valve. Tappets are $\frac{1}{2}$ inch square, hollow, and provided with adjusting screws. They are tempered glass hard and run in extra long bronze bushings, and are fitted with cam rolls.
- Breathers**—Mechanical. The intake tappets form a slide valve for releasing the pressure in crank case. Breather pipes connect with intake pipe. No oil is wasted by being blown out.
- Lubrication**—Mechanical force feed oil injector driven by motor which feeds according to speed of motor. Hand pump to assist motor on hills. Splash oil system to cylinder and crank, with oil ducts leading to every working part.
- Muffler**—Improved Iver Johnson, entirely contained in the exhaust pipe, wonderfully silent and without back pressure.
- Ignition**—High tension Bosch Armored Magneto placed low in front of motor and driven by three gears on ball bearings in oil-tight case. The magneto gear case is attached to the crank case by a tapered ground connection and held with one bolt. Magneto can be adjusted by removing small cap on case without removing parts.
- Carburetor**—Schebler float feed. Hand operated auxiliary air valve operated by lever on side of intake pipe thins mixture at high speeds and adds to speed possibilities of the machine.
- Tank**—Iver Johnson combination gasoline and oil. Pressed steel copper plated inside and out, and tinned on the inside to prevent rusting. Capacity $2\frac{1}{2}$ gallons gasoline, and 2 quarts of oil.
- Transmission and Clutch**—Roller chain with planetary undergear and free motor. Both sprockets are large, saving wear and breakage of chain. No part of load carried by the crank shaft. Geared 1-4.25, 31 tooth front, 35 tooth rear sprockets to permit easy starting and excess power on the hills. Options. 31 tooth rear gear 1-3.75; 39 tooth rear gear 1-4.75; 43 tooth rear gear 1-5. The free engine consists of self-contained planetary gearing controlled by a positive band brake. A pawl enables the rider in cold weather, or when the engine is stiff and cold, to turn the engine over at speed of two with every revolution of the starting pedals, until the engine takes hold, when the pawl is automatically released, permitting free motor without extra clutch.
- Kick Starter**—Consisting of one segment and one gear. Folding foot lever.
- Control**—Outside grip control, with telescoping steel rods, and ball and socket joints, very sensitive and direct, with no tendency to lose adjustment by wide turns and vibration. All joints held from rattling by springs. No lost motion.
- Handle Bar**—25 inches, made from 1 inch, 14 gauge seamless tubing, tapered from head to grip. Motorcycle 8 inch rubber grips.
- Frame**—Iver Johnson Truss, $1\frac{1}{8}$ inch, 14 gauge seamless tubing, reinforced at every point of strain. All connections drop-forged, long and tapered to a thin edge. Saddle position $29\frac{1}{2}$ inches, height of frame 19 inches, road clearance 5 inches, wheel base 56 to 58 inches. Powerful truss reinforcement.
- Front Fork**—Iver Johnson Truss Spring fork, with 5 leaf Vanadium steel spring, rebound taken by 4 long leaves, and a short leaf to insure strength and to distribute properly the strain. Reinforced at crown and safety stud in stem. Resilient and powerful.
- Wheels**—28 inch standard spokes, C. C. steel rims enameled same color as frame. Corbin band brake on rear hub. Auxiliary foot-lever control.
- Guards**—Wide front and rear, deep pattern and chain guard. Splasher on front guard and extension over front wheel.
- Tires**—Goodrich. Option. Goodyear. U. S. (Indianapolis). Studded, clincher, 28 inches by 3 inches.
- Saddle**—Troxel No. 1. Option. Messinger Superba No. 4. Messinger Cavalry No. 3. Persons Pan Dandy. Persons Champion.
- Seat Post**—Iver Johnson Spring Seat Post. Option. Rigid Post.
- Pedals**—Standard Slip-Axle Motorcycle.
- Foot Rests**—Detachable and folding with brake control lever.
- Stand**—Iver Johnson Improved, tubular.
- Luggage Carrier**—Iver Johnson Detachable, tubular. Platform for tool box.
- Tool Bag**—Extra large, square leather bag containing oil can, repair outfit and all necessary tools.
- Color**—Gray, dark gray striped and beautifully panelled.
- Weight**—260 pounds.

All prices in this catalogue are net.

Iver Johnson Motor Cycles



4-5 H.P.

IVER JOHNSON BIG 4 SINGLE Model 16-4 C

Specifications

IVER JOHNSON BIG 4 TWO-SPEED SINGLE

4-5 H.P. Model 16-4 C. T. S. \$280.00

Except for the two-speed feature the specifications are the same as those of the regular Big 4 Single Model 16-4 C.

Two-speed is geared at $3\frac{3}{4}$ -1 on high and $6\frac{1}{2}$ -1 on low.

Eclipse two-speed attachment.

Specifications

IVER JOHNSON BIG 4 SINGLE

4-5 H.P. Model 16-4 C. \$245.00

Motor—Iver Johnson 4-5 H.P., $3\frac{1}{4}$ inch bore, $4\frac{1}{4}$ inch stroke. Long stroke and compact crank construction permit very high compression, resulting in exceptional power, speed, flexibility and long life.

Flywheels—Perfectly turned and balanced, the weight, 30 pounds, being chiefly in the rim.

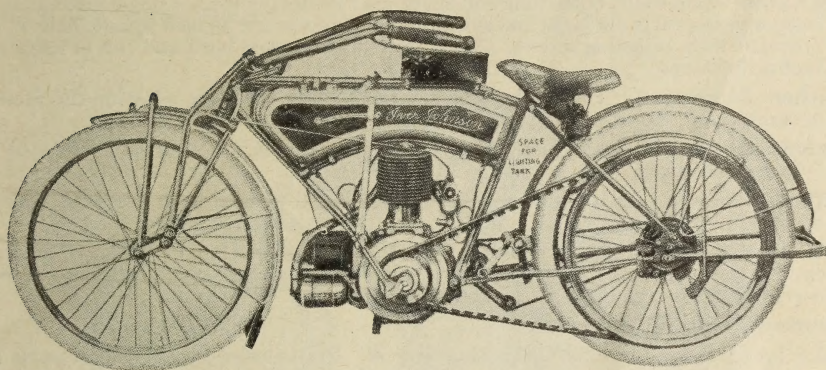
Tires—Goodyear. Option. U.S. (Indianapolis): Studded, clincher, 28 inches by $2\frac{3}{4}$ inches.

Weight—220 pounds.

Balance of specifications same as those shown for 7-8 H.P. Twin on previous pages.

All prices in this catalogue are net.

Iver Johnson Motor Cycles



Specifications

IVER JOHNSON V BELT SINGLE

4 H.P. Model 16-4B.....\$210.00

Motor—Iver Johnson Regular 4 H. P., $3\frac{1}{4}$ inch bore, $3\frac{3}{4}$ inch stroke. Long stroke and compact crank construction permit very high compression, resulting in exceptional power, speed, flexibility and long life.

Cylinder—Cast integral with head from finest quality of gray iron. Accurately bored and ground glass smooth. Very cooling large surfaces, the air circulating completely around valve chambers.

Crank Case—Oil tight, and made of aluminum with a removable oil window which is fitted to the plug so plug can be removed without disturbing glass for washing out crank case.

Piston—Has three eccentric rings, finished by special process. Wrist pin $1\frac{1}{2}$ inch by 1 inch, hollow and glass hard, being held in place by a large taper head screw and positively locked.

Pitman Rod—Drop forged, I-beam pattern, and extra long, preventing excessive side piston thrust. Has deep oil channel on each side, conducting oil to the crank and wrist pin, and is fitted with bronze bearings.

Fly-wheels—Perfectly turned and balanced, the weight, 30 pounds, being chiefly in the rim.

Bearings—Fine phosphor bronze, the crank shaft and pin longest and largest in any motorcycle and are integral with the crank, made of Vanadium steel left soft to insure great strength and have hard glass steel sleeves shrunk onto the crank shaft, absolutely preventing wear. All wearing parts interchangeable. The crank shaft and pin constantly float in oil which is supplied by splash of fly-wheel.

Valves—Both valves are mechanically operated, are interchangeable and are forged from nickel steel. The valves are $1\frac{3}{4}$ inch diameter, a 30 degree seat and $\frac{1}{4}$ inch lift. Valve stems are protected from burnt gases and carbon by outer sleeves. The stems are extra long and hardened on lower ends and run in long hardened sleeves with provision for oiling stems.

All prices in this catalogue are net.

Iver Johnson Motor Cycles

Valve Cams—Cam shaft, both cams and spiral gear are forged from a single piece of nickel steel, wearing parts are large and substantial. Tappets are $\frac{1}{2}$ inch square, hollow, and provided with adjusting screws. They are tempered glass hard and run in extra long bronze bushings.

Breather—Mechanical. The intake tappet forms a slide valve for releasing the pressure in crank case. No oil is wasted by being blown out.

Lubrication—Positive hand pump feed to the crank case. Splash oil system to the cylinder and crank.

Muffler—Improved Iver Johnson, wonderfully silent and without back pressure. Cut-out operated by foot.

Ignition—High tension Bosch Armored Magneto directly connected to the cam shaft, no extra gears. Magneto can be adjusted by removing small cap on case without removing parts.

Carburetor—Schebler float feed.

Tank—Iver Johnson combination gasoline and oil. Pressed steel copper plated inside and out, and tinned on the inside to prevent rusting. Capacity 2 gallons gasoline and 3 pints of oil.

Transmission and Clutch—V belt with Iver Johnson free engine clutch. Our clutch is built on a new principle. Pulley runs free on roller bearings and has a large plate or cone on each side, the inside frictional surface being larger than the pulley, and the outside frictional surface being of the same size as the pulley, thus giving five times the frictional surface between pulley and cones as between pulley and belt. The pulley can be allowed to slip for slow speeds without burning the fibre discs. The discs are shellacked to the plates and can be removed easily. The pulley has adjustment to take up wear of discs to prevent slipping.

Control—Outside grip control with telescoping steel rods, and ball and socket joints, very sensitive and direct, with no tendency to lose adjustment by wide turns and vibration. All joints held from rattling by springs. No lost motion.

Handle Bar—25 inches, made from 1 inch, 14 gauge seamless tubing, tapered from head to grip. Motorcycle 8 inch rubber grips.

Frame—Iver Johnson Truss, $1\frac{1}{8}$ inch, 14 gauge seamless tubing, reinforced at every point of strain. All connections drop-forged, long and tapered to a thin edge. Saddle position $31\frac{1}{2}$ inches, height of frame 19 inches, road clearance 5 inches, wheel base 56 to 58 inches. Option. Spring Frame.

Front Fork—Iver Johnson Truss Spring fork, with 5 leaf Vanadium steel spring, rebound taken by 4 long leaves, and a short leaf to insure strength and to distribute properly the strain. Reinforced at crown and safety stud in stem. Resilient and powerful.

Wheels—28 inch standard 36 spokes, B. B. steel rims enameled same color as frame. Corbin band brake on rear hub.

Guards—Wide front and rear. Splasher on front guard and extension over front wheel. Rear guard detachable.

Tires—Goodrich. Option. Goodyear. U. S. (Indianapolis). Studded, clincher, 28 inches by $2\frac{1}{2}$ inches.

Saddle—Troxel No. 1. Option. Persons Champion.

Seat Post—Iver Johnson Spring Seat Post. Option. Rigid Post.

Pedals—Standard Slip-Axle Motorcycle.

Stand—Iver Johnson Improved, tubular.

Tool Bag—Square leather bag containing oil can, repair outfit and all necessary tools.

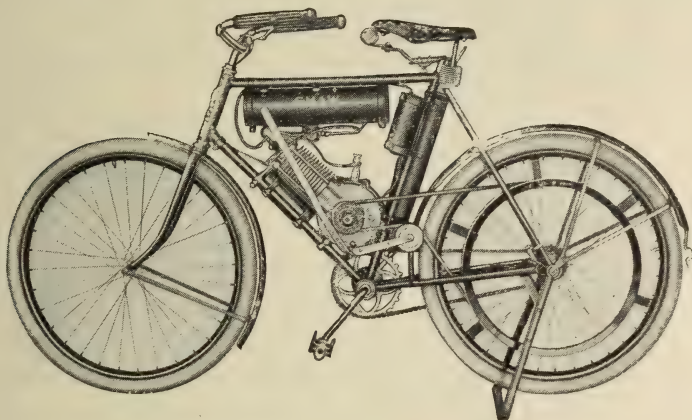
Color—Gray, dark gray striped.

Weight—215 pounds.

All prices in this catalogue are net.

Models M and B Shaw 2½ H.P. Bicycle Motor Attachments

Model M with Tension Magneto-Pull (without bicycle and stand)	\$87.50
Model B with Battery Ignition " " "	67.50



This illustration, reproduced from a photograph, shows the Model B Shaw Motor Attachment clamped to a common bicycle.

**Our Motor Attachment Includes Every Part Required to Convert Your Bicycle
Into a Practical Motorcycle**

The Model B Shaw Motor Attachment consists of the following described parts:

Shaw Motor—2½ H.P. all finished, assembled and tested, ready to be clamped on bicycle frame.

Carburetor, Lunkenheimer Automatic Mixing Valve Type—Simple and reliable, anyone can understand it. We furnish any make of carburetor when desired, but recommend the Lunkenheimer on account of its simplicity and reliability.

Muffler—Our own make complete with exhaust pipe to fit. It reduces the exhaust to a soft puffing, which is very desirable.

Idler—Hand operated, gives free engine.

Belt—V shape, made of special tanned, tough and flexible leather that does not lose power like most belts. It is strong and durable. This belt is used on several makes of standard motorcycles that are prominent in the United States.

Rear Pulley Rim—Made of steel, complete with stays.

Tank—With gasoline and oil compartments ready to clamp to top tube of bicycle frame.
If your bicycle has double or truss bar we will furnish a special tank for it.

Battery Case—Made of strong fiber insulation to protect the battery and prevent short-circuiting.

All prices in this catalogue are net.

Battery—Consists of two standard size dry cells, put in fiber case and wired.

Spark Coil—Best made, wired ready for use, guaranteed by makers for five years. It requires a good coil to do good work. This coil costs more than others, but is the cheapest in the end. There is practically no wearing out to this coil.

Spark Plug—Red Head, they last for years.

Grip Control—Fitted with Rough Rider Rubber grips. With ours the rider can increase or decrease the speed or stop the motor entirely by a simple twist of the wrist.

Oiler—Sight feed, ready to screw into crank case and connect up to oil tank by simply screwing the union coupling up.

Clamps and full set with bolts are included.

All pipes, Compression Union Couplings, etc., are included, all joints are made so there is no trouble in making the connections.

The Model M Shaw Motor Attachment is the same as Model B, except instead of battery case, battery and spark coil, it is equipped with a high grade high tension magneto, which is made especially for us by one of the most prominent manufacturers of magnetos in the United States. They give a hot spark at low as well as high speed, which enables the motor to be slowed down very nicely.

Complete Attachment weighs 40 pounds.

Fits any Frame

The Shaw Attachment fits any frame, and the clamps are suitable for all sizes of tubing. It fits bicycle frames from 17 to 26 inches in height. No brazing or changing of the frame is needed.

It weighs less than other motors and is arranged to balance perfectly, thus avoiding the vibration so common in most motors.

The parts are assembled as much as possible before shipment, so as to save you any unnecessary work.

Fuel Supply

We furnish a gasoline tank holding sufficient fuel (about 5 pints) for a run of 75 miles.

The lubricating oil compartment holds about one pint, enough for 125 miles.

The oil feed is automatic—an absolute necessity if comfort and convenience are to be considered.

The Power Transmission

A flexible belt, made of very tough, durable leather, runs over deep V grooved pulleys, transmitting the power to the rear wheel.

Flat belts lose power and should be avoided.

Proper tension of the belt is secured by hand lever operated idler. By using as clutch gives free engine and the machine may be started same as an automobile.

The Control

Simplicity of control is very important. It adds to the comfort, the security of motor-cycling.

We have solved this problem with the Shaw Grip Control. We furnish long rubber grips to take the place of the regular grips.

The rider can start or stop the motor by a simple turn of the wrist.

You can apply the Coaster Brake and stop the motor, or a sharp turn of the control grip in either direction will do it.

Running Qualities

The Shaw will take you over city streets or ordinary country roads and up hills of 20 per cent grade. It is a "flying machine on land." Safe, speedy and secure.

It may be speeded up to 35 miles an hour or slowed down to 4.

No ordinary road is too rough for it, nor hill too steep.

All prices in this catalogue are net.

Construction of Motor

The materials used in these motors are the best we can procure. The best is the cheapest in the end.

Our motors are made on the interchangeable plan. By using special templates and jigs, the parts are machined and ground to a standard so that all parts are sure to fit properly.

All cams, levers and working parts are subject to much wear, and are carefully case hardened to give long life. Many motors on the market have soft steel and brass exhaust cams, and after a little use the cams become worn so that the exhaust valve opens too late and closes too soon. This does not happen to the Shaw Motor.

Our exhaust cam is milled to a special form so that it opens the valve quietly and quickly and closes it quietly, thus giving the maximum power and without strain to the valve and parts.

Valve Gears—Cut from solid steel accurately fitted.

Cylinder—Analyzed close grain grey iron, cast in baked mould; machined to a perfect fit.

Piston and Rings—Analyzed tough grey iron; machined to fit cylinder accurately.

Crank Case—Light weight, highest grade aluminum, same as used in the best automobile motors.

Shafts—Special highest grade steel, well finished, making them very long lived.

Commutator—Pure platinum contact points that make a positive electrical connection inside the dust proof case. Cam and contact spring are carefully tempered.

Spark Plug—Red Head. Some have been used for more than six seasons.

Connecting Rod—Drop forged in one solid piece, bronze bushed; no nuts to get loose.

Valves—Poppet type; drop forged, accurately machined and ground to a perfect fit.

Lubrication—Automatic; sight feed; requires no attention after being adjusted.

Specifications of Motor

Type—Four cycle; air cooled.

Power— $2\frac{1}{2}$ H.P., at 2,000 revolutions per minute.

Bore— $2\frac{1}{2}$ inches.

Stroke—3 inches.

Height—15 inches.

Weight—24 lbs.

Shaft—11-16 inch in diameter.

Bearings—1 3-16 in. long; bronze bushed.

Case—Diameter, 8 inches.

Case—Width, $2\frac{7}{8}$ inches.

Ignition—Jump spark, two dry cells or High Tension Magneto.

Automatic compression relief.

Lubrication—Sight feed, automatic.

Our Strong Guarantee

We have such absolute faith in our product that we do not hesitate to give this broad and liberal

GUARANTEE

We Agree to make good by repair or replacement within one year from date of invoice, any defect in material or workmanship of any Shaw Motorcycle Attachment, provided the defective part is delivered to us, transportation prepaid.

This guarantee does not cover any damage by accidents, misuse or neglect.

SHAW MANUFACTURING COMPANY

Price of Model M Attachment, each	\$87.50
Price of Model B Attachment, each	67.50

All prices in this catalogue are net.

Eagle Motor Type Bicycle, Model 54



Model 54

Double Bar Curved Top Bars—Braced Motor Type Front Fork.

Frame—Double Bar, Curved Top Bars, 20-inch, 1-inch 19-gauge Tube, Flush Connections, 7-8-inch Tapered Rear Forks, $\frac{3}{4}$ -inch Rear Stays.

Fork—Full enameled, braced Motor Type.

Crown—Forged.

Cranks—Fauber Round Special, One-piece Patented, with Diamond Design Sprocket.

Gear—26-tooth Front, 9-tooth x 3-16 x 1-inch Pitch Rear.

Hubs—New Departure Coaster Brake, Front Hub to match.

Rims—Enameled.

Chain—3-16 x 1-inch pitch.

Finish—Maroon, with White Head.

Tires—28 x $1\frac{1}{2}$ -inch Dunlop Traction.

Saddle—Person's Bon Ton.

Pedals—Rubber.

Bars—Adjustable Forward Extension, with Long Rubber Grip.

Mud Guards—Steel front and rear, with Double Braces, Enameled, Center Stripe to match Frame.

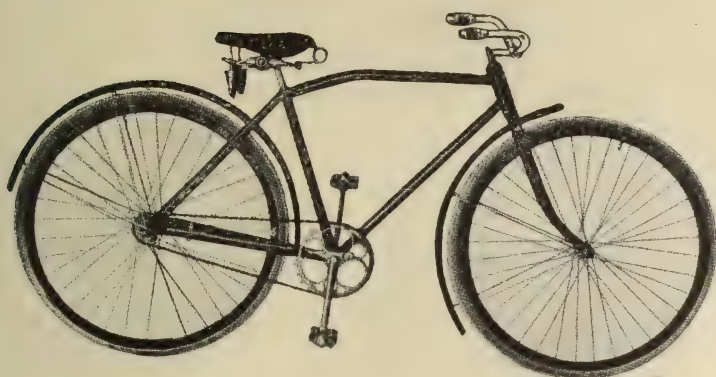
Stand—Steel.

Tool Bag, Tools and Pump.

Price.....	\$45.00
Price, with Dunlop Imperial Tires.....	43.50

All prices in this catalogue are net.

Eagle Bicycle, Model 10



Description of Model 10

Full Size Man's Bicycle for the Boy, with 28-inch Wheels and 18-inch Frames. The Boy will not soon outgrow this Bicycle, but will continue to ride it for years. There is a good market for this Model and it is entitled to your consideration. Just the Bicycle for a very short man.

Frame—Curved Top Bar, 18-inch.

Cranks—Faubert Round Special, One-piece Patented.

Hubs—New Departure Coaster Brake, Front Hub to match.

Finish—Maroon.

Tires—28 x 1½-inch Dunlop Special.

Saddle—Person's Bon Ton.

Pedals—Rubber.

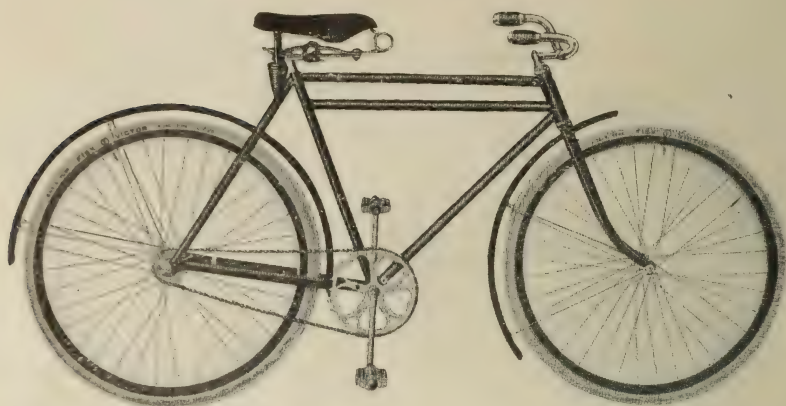
Bars—Adjustable Forward Extension, with Wear Well Grips.

Mud Guards—Steel Double Braces front and rear, Enameled.

Tool Bag, Tools and Pump.

Price.....	\$40.00
Price, with Dunlop Imperial Tires.....	39.00
Price, with Dunlop Banner Tires.....	38.00

Eagle Two-Bar Bicycle, Model 46 D.B.



Model 46 D.B.

Frame—20-, 22- and 24-inch, 1-inch 19-gauge Tube, Flush Connections, 7-8-inch Tapered Rear Fork, $\frac{3}{4}$ -inch Rear Stays.

Fork—Full Enameled.

Crown—Forging one-piece.

Cranks—Fauber Round Special, one-piece Patented, with Diamond Design Sprocket.

Gear—26-tooth Front, Rear 9 x 3-16-inch.

Chain—3-16-inch, 1-inch Pitch.

Hubs—New Departure Coaster Brake, Front Hub to match.

Rims—Enameled.

Finish—Black.

Saddle—Person's Bon Ton.

Tires—Dunlop Special, 28 x $1\frac{1}{2}$ -inch.

Pedals—Rubber.

Bars—Adjustable Expander Forward Extension, with Wear Well Grips.

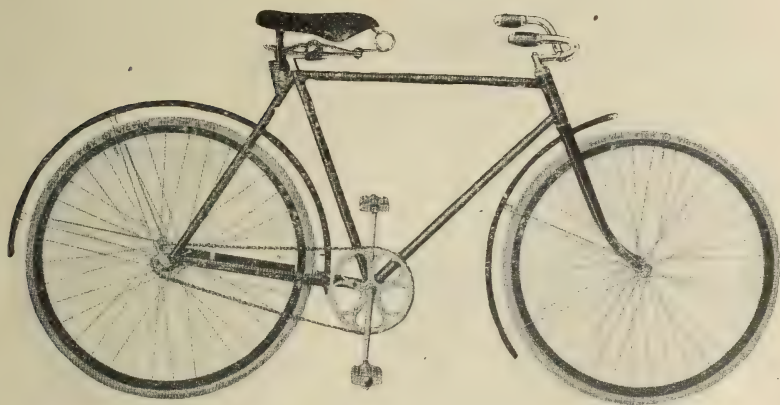
Guards—Steel, front and rear, Double Braces. Enameled.

Tool Bag, Tools and Pump.

Price.....	\$42.00
Price, with Dunlop Imperial Tires.....	41.00
Price, with Dunlop Banner Tires.....	40.00

All prices in this catalogue are net.

Eagle Bicycle, Model 46



Model 46

Frame—20-, 22- and 24-inch, 1-inch, 19-gauge Tube, Flush Connections, 7-8-inch Tapered Rear Fork, $\frac{3}{4}$ -inch Rear Stays.

Fork—Full enameled.

Crown—Forging one-piece.

Cranks—Fauber Round Special, one-piece Patented, with Heart Design Sprocket.

Gear—26-tooth Front, Rear 9 x 3-16-inch.

Chain—3-16-inch, 1-inch Pitch.

Hubs—New Departure Coaster Brake, Front Hub to match.

Rims—Enameled.

Finish—Black.

Saddle—Person's Bon Ton.

Tires—Dunlop Special, 28 x $1\frac{1}{2}$ -inch.

Pedals—Rubber.

Bars—Adjustable Expander Forward Extension with Wear Well Grips.

Guards—Steel, front and rear, Double Braces. Enameled.

Tool Bag, Tools and Pump.

Price.....	\$40.00
Price, with Dunlop Imperial Tires.....	39.00
Price, with Dunlop Banner Tires.....	38.00

All prices in this catalogue are net.

Eagle Ladies' Bicycle, Model 56



Model 56, Ladies'

Frame—20-inch, 1-inch 19-gauge Tube, 7-inch Head, Flush Connections, 7-8-inch Tapered Rear Forks, $\frac{3}{4}$ -inch Rear Stays.

Fork—Full Enameled.

Crown—Forging one-piece.

Cranks—Fauber Round Special, one-piece Patented, with Heart Pattern Sprocket.

Gear—22-tooth Front, Rear 9 x 3-16-inch.

Hubs—New Departure Coaster Brake, Front Hub to match.

Rims—Enameled.

Chain—3-16-inch, 1-inch Pitch.

Finish—Black, White Head.

Tires—28 x $1\frac{1}{2}$ -inch Dunlop Special.

Saddle—Ladies' Style.

Pedals—Rubber.

Bars—Adjustable Expander, with Wear Well Grips.

Dress and Chain Guard and Net.

Guards—Double Braces front and rear, Enameled, with center stripe to match Frame.

Tool Bag, Tools and Pump.

Price.....	\$45.00
Price, with Dunlop Imperial Tires.....	44.00
Price, with Dunlop Banner Tires.....	43.00

All prices in this catalogue are net.

FOR 1918 we offer without exception the best line of bicycles and equipment on the market. Our bicycles have individuality and selling arguments that cannot be found in any other line, being made of the best material procurable; elegantly finished and equipped with Genuine Patented One-Piece Fauber Crank Hangers, Best Quality Chains; and all models with Coaster Brakes, Mud Guards, Tool Bag and Tools. We use 18 and 19 gauge tubing exclusively. The Heads, Clusters, Brackets are made under U.S. Patent No. 1101131, June 23, 1914. Are of special construction and reinforcement and make the strongest and best frame possible to be constructed. (Beware of infringement.) The most careful attention has been given in selecting our equipment. You will find it a superior line and a money maker for you.

MODEL No. 1

Frame—20-, 22- and 24-inch, 1-inch, 19-gauge tube, flush connections, $\frac{7}{8}$ -inch tapered rear fork, $\frac{3}{4}$ -inch rear stays.

Fork—Full enamelled.

Crown—Forging, one-piece.

Cranks—Fauber round special, one-piece patented, with heart design sprocket.

Gear—26-tooth front, rear 9 x 3-16 inch.

Chain—3-16-inch, 1-inch pitch.

Hubs—New Departure Coaster Brake, Front hub to match.

Rims—Enamelled.

Finish—Royal blue or maroon, gold striped, with white head and white stripe in centre of mudguard.

Saddle—Person Bon Ton.

Pedals—Rubber.

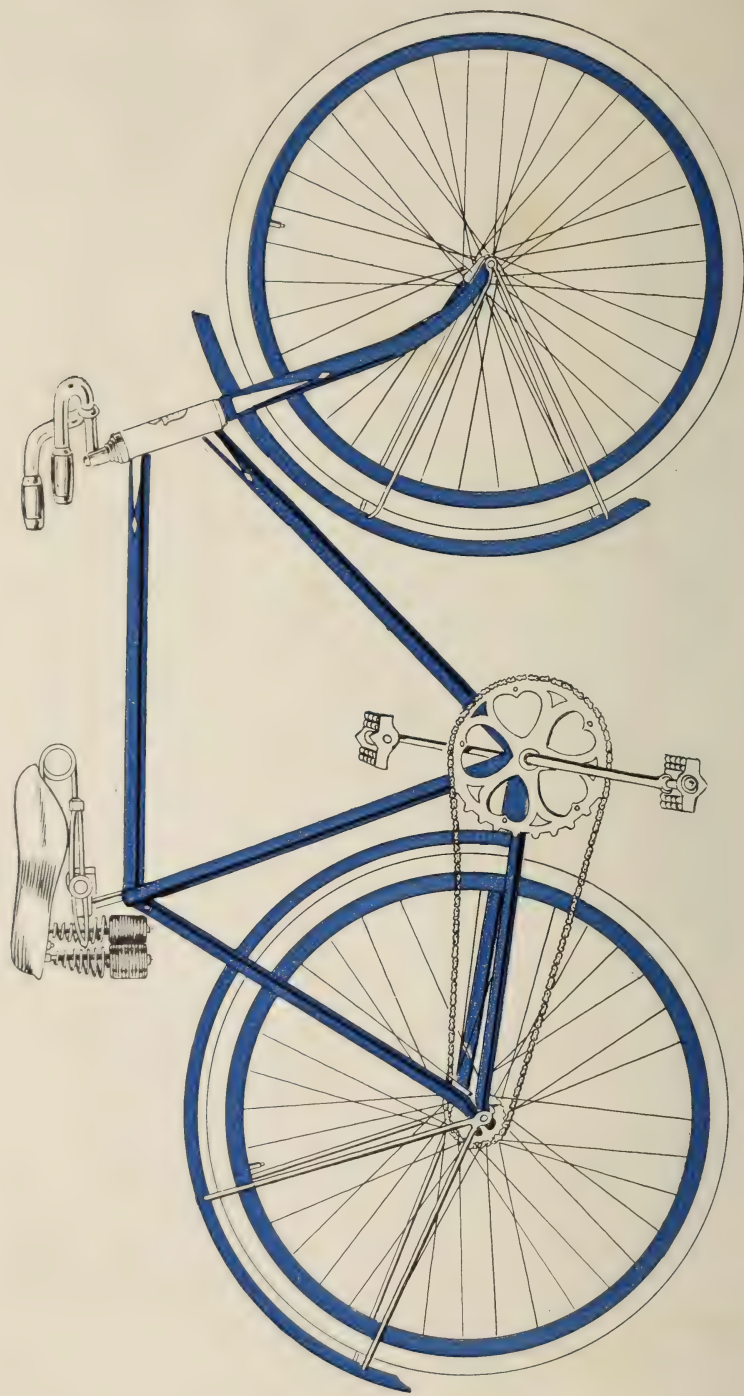
Bars—Adjustable expander forward extension with Wear Well grips.

Guards—Steel front and rear, double braces, enamelled.

Tool Bag, Tools and Pump.

Price, fitted with Dunlop Traction Tires.....	\$44.00
Price, fitted with Dunlop Special Tires.....	43.00
Price, fitted with Dunlop Imperial Tires.....	41.00
Price, fitted with Dunlop Banner Tires.....	40.00
Price, fitted with Dunlop Challenge Tires.....	38.00

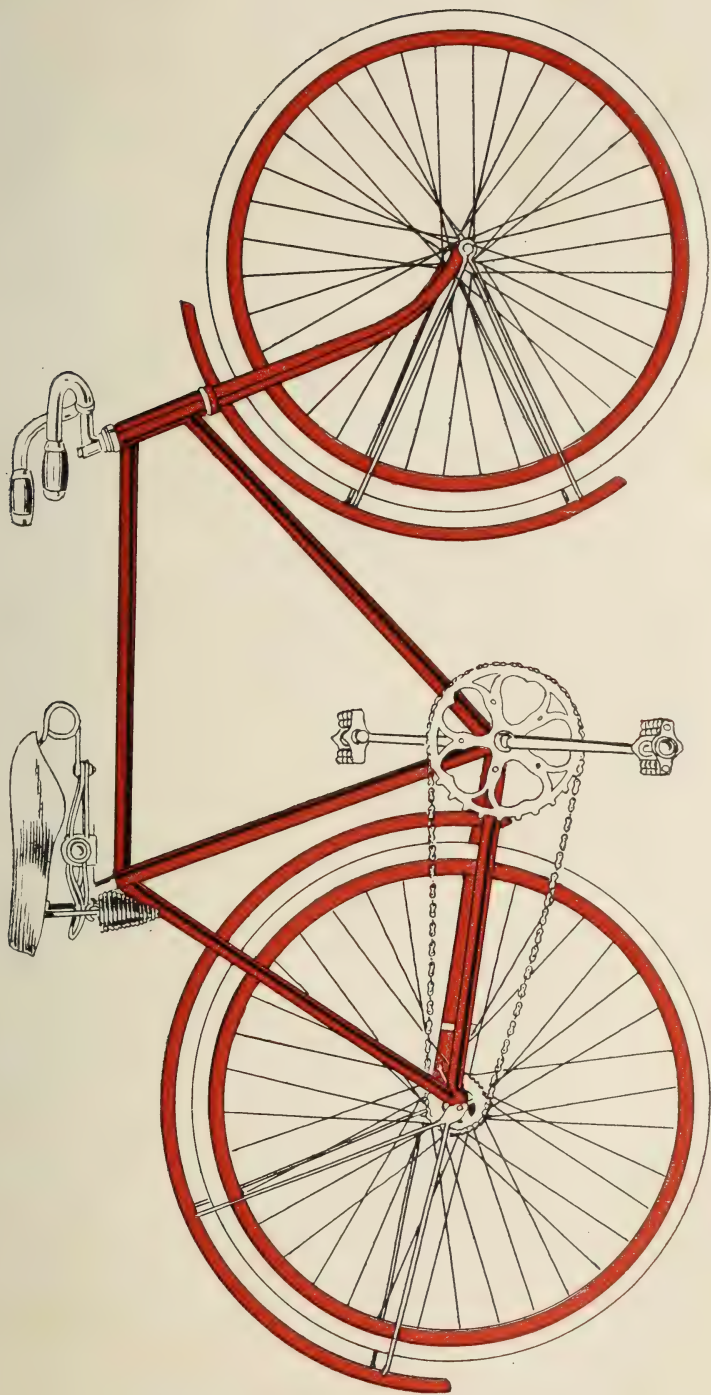
Model No. 1



Finish : Royal Blue or Maroon, Gold Striped, with White Head and White Stripe in centre of Mudguard.

For description and prices see page 17.

Model No. 2



Finish : Maroon or Royal Blue, Gold Striped.

For description and prices see page 20.

MODEL No. 2

Frame—20-, 22- and 24-inch, 1-inch, 19-gauge tube, flush connections, $\frac{3}{8}$ -inch tapered rear fork, $\frac{3}{4}$ -inch rear stays.

Fork—Full enamelled.

Crown—Forging, one-piece.

Cranks—Fauber round special, one-piece patented, with heart design sprocket.

Gear—26-tooth front, rear 9 x 3-16 inch.

Chain—3-16-inch, 1-inch pitch.

Hubs—New Departure Coaster Brake, Front hub to match.

Rims—Enamelled.

Finish—Royal blue or maroon, gold striped.

Saddle—Person Bon Ton.

Pedals—Rubber.

Bars—Adjustable expander forward extension, with Wear Well grips.

Guards—Steel front and rear, double braces, enamelled.

Tool Bag, Tools and Pump.

Price, fitted with Dunlop Traction Tires.....	\$43.00
Price, fitted with Dunlop Special Tires.....	42.00
Price, fitted with Dunlop Imperial Tires.....	40.00
Price, fitted with Dunlop Banner Tires.....	39.00
Price, fitted with Dunlop Challenge Tires.....	37.00

FARM & DAIRY
AND
RURAL HOME

PETERBORO, ONT., February 28th, 1916.

THE DESBARATS ADV. AGENCY, LTD.,

MONTREAL, QUE.

Dear Sirs:—

This will acknowledge your contract and instructions for your client T. W. Boyd & Son.

You may be interested to know that 12 or 15 years ago, while we were on the farm, my brother purchased a bicycle from this advertiser and it was one of the best wheels we ever owned. My oldest brother who made the purchase passed it on to me when I started going to the High School. I used it for several years and later sold it for a goodly price. We considered it one of our very best purchases. The arrival of this copy always recalls our very pleasant experience with the firm and the thrills I went through over the owning of my first bicycle.

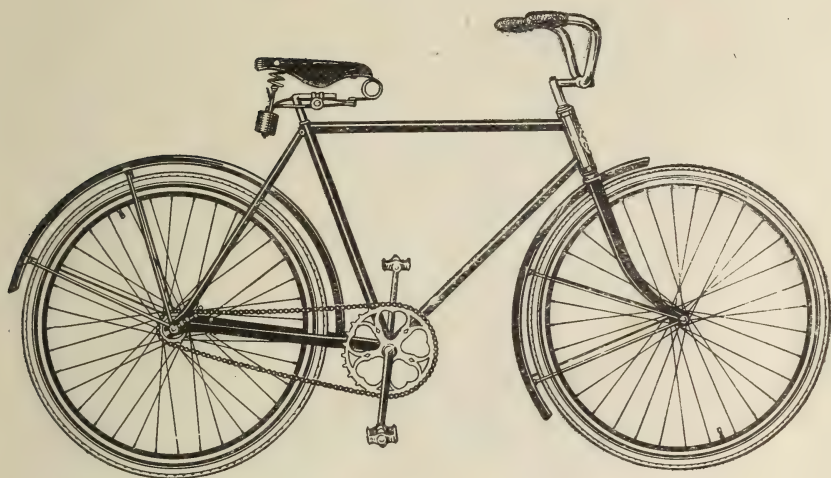
Yours very truly,

RURAL PUBLISHING COMPANY, LTD.,

Per J. E. SMITH, Advertising Manager.

All prices in this catalogue are net.

Hawk Bicycle, Model 1917



Frame—20, 22, 24 inches.

Hanger—Fauber one-piece drop forged, Nickel Cranks.

Hubs—New Departure Coaster Brake, Front Hub to match.

Rims—Enameled.

Chain—3-16 x 1-inch pitch.

Finish—Black.

Saddle—Person's Bon Ton.

Pedals—Rat-trap or Rubber.

Bar—Perfection, Adjustable with Wear Well Grips, Extension or Regular.

Mudguards—Enameled Steel.

Tool Bag, Tools and Pump.

Fitted with Dunlop Banner Tires, 28 x 1½. Price.....\$37.00

Fitted with Dunlop Challenge Tires. Price..... 36.00

Hawk Ladies' Bicycle, Model 1917



Frame—Height, 20 or 22 inches.

Crown and Forks—Drop Forged. Seamless forks.

Chain— $\frac{3}{16}$ x 1 inch pitch.

Hanger—Drop forged, nickel cranks.

Wheels and Spokes—28 inches, spoked 32 and 36.

Handle Bar—Regular adjustable.

Hubs—Hercules Coaster Brake with front hub to match.

Finish—Black only.

Rims—Enamelled.

Saddle—Ladies' Style.

Pedals—Rubber.

Enamelled Dress and Mudguards.

Tool Bag, Tools and Pump.

Fitted with Dunlop Banner Tires. Price \$40.00

Fitted with Dunlop Challenge Tires. Price 39.00

All prices in this catalogue are net.

Bullseye Bicycle, Model 1917

Frame—Fauber, 20, 22, 24 inches.

Hanger—Fauber one-piece drop-forged, nickel cranks.

Hubs—New Departure Coaster Brake, Front hub to match.

Rims—Natural.

Chain— $\frac{3}{16}$ x 1 inch pitch.

Finish—Black.

Saddle—Persons' Bon Ton.

Pedals—Rat-trap or Rubber.

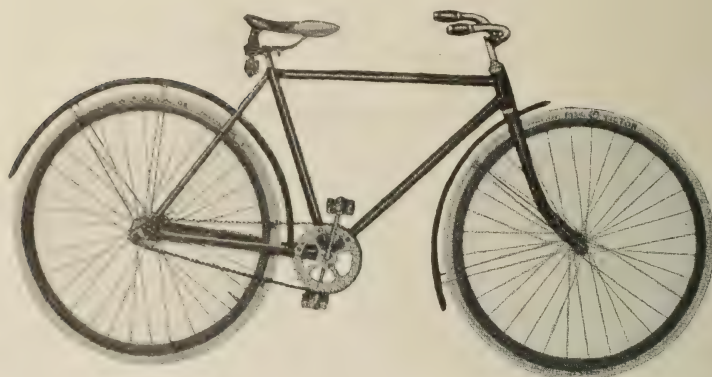
Bar—Perfection, adjustable with Wear Well grips, extension or regular.

Mudguards—Enamelled steel, without flap.

Tool Bag, Tools and Pump.

Fitted with Dunlop Challenge tires, 28 x 1½. Price\$35.00

Eagle Boys' Juvenile Bicycle



Description of Boys' Models 6 and 8

Model 6—Frame, 16½-inch, wheels, 24 inches.

Model 8—Frame, 18 inches, wheels 26 inches.

Cranks—Fauber one-piece Cranks, Patented.

Hubs—New Departure Coaster Brake, Front Hub to match.

High Grade Juvenile Saddle, rubber Pedals and Adjustable Bars, with Wear Well Grips.

Tires—Dunlop Imperial.

Color—Enameled Black.

Mud Guards—Steel, with Double Braces front and rear.

Tool Bag, Tools and Pump.

Price.....\$35.00

Eagle Girls' Juvenile Bicycle



Description of Girls' Models 7 and 9

Model 7—Frame, 16½-inch, wheels, 24 inches.

Model 9—Frame, 18 inches, wheels, 26 inches.

Cranks—Fauber one-piece Cranks, Patented.

Hubs—New Departure Coaster Brake, Front Hub to match.

High-grade Juvenile Saddle, Rubber Pedals and Adjustable Bars, with Wear Well Grips.

Tires—Dunlop Imperial.

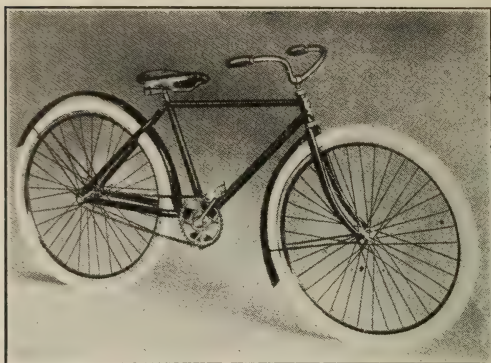
Color—Enameled Black.

Mud Guards—Steel, with Double Braces front and rear.

Tool Bag, Tools and Pump.

Price.....\$35.00

Hawk Boys' Juvenile Bicycle



Frame—Built from seamless steel tubing, 16 inches 26-inch wheels.

Finish—Four coats black enamel.

Wheels—Wood rims, rustless spokes.

Hubs—Hercules Coaster Brake.

Chain—English.

Saddle—Juvenile.

Pedals—Rubber or rat-trap.

Guards—Steel, enamelled black and lined.

Tires—Dunlop Imperial.

Complete with Pump, Tool Bag and Tools.

Price.....\$33.00

Hawk Girls' Juvenile Bicycle



Frame—Built from seamless steel tubing, 16 inches 26-inch wheels.

Finish—Four coats black enamel.

Wheels—Wood rims, rustless spokes.

Hubs—Hercules Coaster Brake.

Chain—English.

Saddle—Juvenile.

Pedals—Rubber or rat-trap.

Guards—Steel, enamelled black and lined.

Tires—Dunlop Imperial.

Complete with Pump, Tool Bag and Tools.

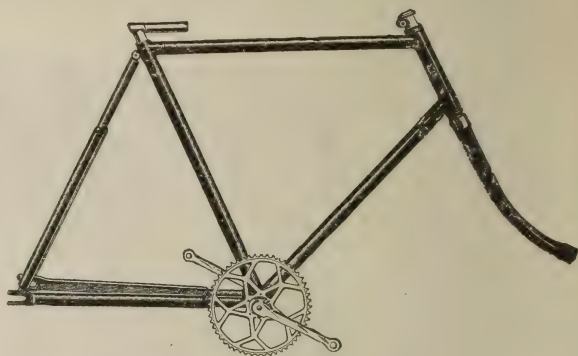
Price.....\$33.00

Frames and Front Forks

FRAMES

At the present prices of finished frames, it will not pay to go to any expense in repairing old and broken frames, as by a slight additional outlay an up-to-date bicycle can be completed with one of our frames and the old equipment.

We supply these frames in 20, 22 and 24 inches, enamelled black, 1-piece hanger, nickeled sprockets.



Eagle and Hawk Frames, each \$16.00

NO. 1 FRONT FORKS

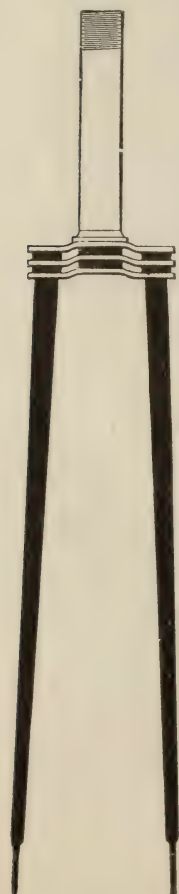
Are built with seamless material throughout, and with 9 to 12-inch stems, which are threaded down 5 inches of their length, 24 threads to the inch. These stems can be cut to any length required, and will take any bicycle frame, from 20 inches to 26 inches.

Price, 9 to 10-inch stem.....	\$1.50
" 12-inch stem.....	2.00

PERFECTION FRONT FORKS

Our Perfection Forks are made of the same material and pattern as the No. 1; full nickeled.

Price, 9 to 10-inch stem	\$2.25
" 12-inch stem	2.50



Perfection Forks

All prices in this catalogue are net.

Repair Hanger

The best Repair Hanger ever made. The best selling article that has come out in years.

CUPS AND CONES

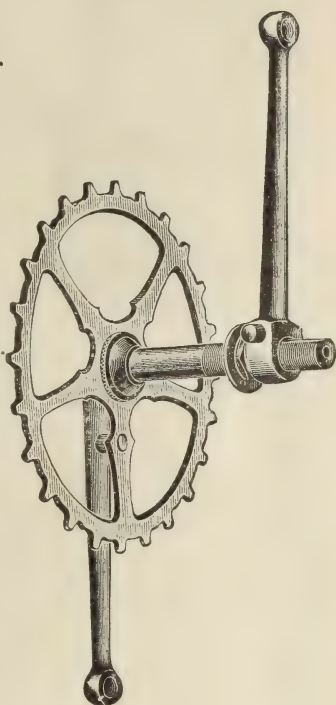
CUPS.—We are making twenty-one different cups which can be used with this hanger. The smallest is $1\frac{1}{2}$ inches outside diameter of cup (not the flange) and the largest is $2\frac{1}{8}$ inches O. D. The cups increase but $\frac{1}{32}$ of an inch to a size in outside diameter, making 21 sizes between $1\frac{1}{2}$ and $2\frac{1}{8}$ inches including these two sizes.

We stock following sizes Cup:— $1\frac{1}{2}$, $1\frac{9}{16}$, $1\frac{5}{8}$, $1\frac{11}{16}$, $1\frac{3}{4}$, $1\frac{13}{16}$, $1\frac{7}{8}$, $1\frac{15}{16}$, $2\frac{1}{8}$ inches.

Price, complete with cups and cones and not sold otherwise, each..... \$4.00

Price List of Repairs

Cups (Send samples), pair.....	\$0.35
Cones (Send samples), pair.....	.40
$\frac{11}{16}$ x 24 lock nuts, each.....	.12
$\frac{11}{16}$ "D" washers, each.....	.10
$\frac{3}{8}$ Cotter pins, each.....	.08
Sprockets, $\frac{3}{16}$, $\frac{1}{4}$ x 24- and 26-tooth, each.....	1.25
Threaded crank, each.....	1.75
Left crank, each.....	1.00



Built-up Wheels



Plain Hubs, Nickled Spokes, One-piece Crescent or Dunlop Rims, well trued.

PRICES

Rear wheel only.....	\$3.50
Front wheel only.....	2.50

Special line of Built-up Wheels with high-grade enamelled rims and plain hubs.

PRICES

Rear wheel only.....	\$3.75
Front wheel only.....	2.75

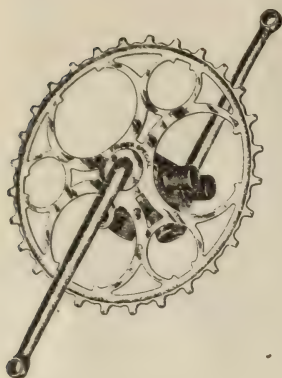
Coaster Brake Rear Wheels

Built with Standard Spokes, 1-piece Crescent or Dunlop Rims, well trued.

Hercules Coaster Brake Wheels, price, each.....	\$6.25
New Departure Coaster Brake Wheels, price, each.....	6.75
Sturmey Archer Tri-Coaster Wheels, price, each.....	14.00

All prices in this catalogue are net.

Fauber Hangers



FAUBER SPECIAL

The Fauber Special is low in price, but honestly and carefully made. $1\frac{5}{8}$ -inch chain-line only for all size tubing, flush or outside; round cranks, regular sprocket.

With Shell, price \$4.00
Less Shell, price 3.75

FAUBER SPECIAL HANGER PARTS

Crank.....	Each \$2.00
Sprockets.....	1.25
Cups, R. H. and L. H.....	.50
Ball Retainer, with balls.....	.35
Cones, R. H. and L. H.....	.35
Spanner Lock Nut.....	.20
D. Washer.....	.05

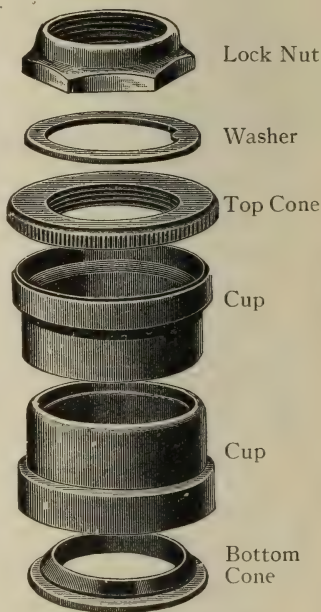
COMPLETE HEAD SETS

Nickeled

No. 402—Six pieces, flush head set, less retainers and balls, set.....	\$0.90
Extra Ball Retainer and Balls, each.....	.20

PRICES SEPARATELY

Lock Nuts.....	Each 15c
Washers.....	5c
Top Cones.....	20c
Cups.....	20c
Bottom Cones.....	10c
Ball Retainer (less Balls).....	15c



Wood Rim Washers

We furnish them boxed, 1,000 in a neat box. When in large quantities we can furnish in bulk. They are the best washers made. Order by number.



No. 1 No. 2 No. 3 No. 4

Price.....M. Lots, 65c; per 100, 10c

No. 5 Steel Rim Washers for English Metal Rims..... per M. \$1.00; per 100, 10c

All prices in this catalogue are net.

Bolts and Nuts

Nickeled



Fauber Screw & Bolt



Sprocket Bolt

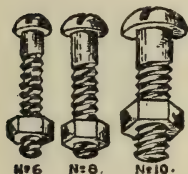


Hanger Bolt



Head Clamp and Seat Post Bolt

No. 325—Rubber Pedal Bolt and Nut, C.C.M.	per dozen,	\$0.35
No. 302—($\frac{3}{16}$ "), and 303 ($\frac{1}{4}$ "), Sprocket Bolts and Nuts	"	1.00
No. 304—Sprocket Bolts only, Fauber, short	"	.35
No. 305—Sprocket Bolts and Nuts, Fauber, long	"	.50
No. 324—Sprocket Bolts and Nuts, for all C.C.M. Bicycles.....	"	.50
No. 306—Toe Clip Bolts and Nuts	per 100	2.00
Head Clamp and Seat Post Bolt	per dozen,	1.20



Machine Screws and Nuts

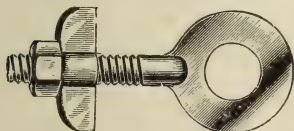
Nickeled

For general repair work. Very handy for attaching guards, pedal rubbers, sprockets and numerous other jobs. Every shop should have a supply.

	Gross	Doz.
6 x $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$	\$1.35	\$0.15
6 x $\frac{3}{4}$, 1	1.50	.15
8 x $\frac{3}{8}$, $\frac{1}{2}$	1.35	.15
8 x $\frac{3}{8}$, $\frac{3}{4}$	1.50	.15
8 x 1, $1\frac{1}{4}$	1.75	.20
10 x $\frac{3}{8}$, $\frac{1}{2}$	1.75	.20
10 x $\frac{5}{8}$, $\frac{3}{4}$	1.80	.20

	Gross	Doz.
10 x 1, $1\frac{1}{4}$	\$2.00	\$0.25
10 x $1\frac{3}{8}$	2.35	.25
10 x $1\frac{1}{2}$	2.35	.25
10 x $1\frac{3}{4}$	2.50	.25
10 x 2	2.70	.25
Assorted.	2.00	.20
Name-plate Screws .....	.65	.10

Chain Adjusters



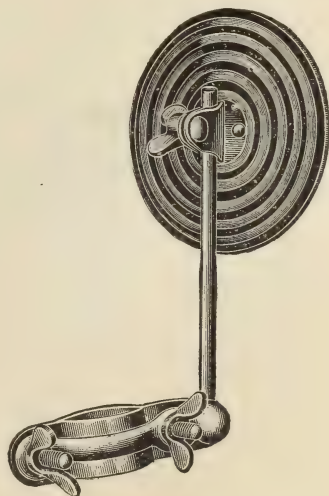
O. S. Rear Adjuster No. 442

No. 442—Rear, nickeled, price, pair..... 10c

Rear-View Mirror

Consists of a beveled 3-in. mirror set securely in a nickel-plated frame, and attached to handle bar with a $7\frac{1}{2}$ in. nickled bracket. Adjustable to any angle, enabling the rider to see what is behind him in the road without turning his head. One of the most useful devices that can be fitted on a bicycle.

Price, complete 75c



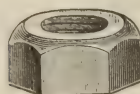
All prices in this catalogue are net.

Bicycle Nuts

Nickeled



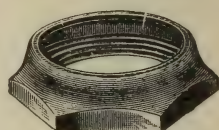
Nos. 1-7



Nos. 8-13



Nos. 14 and 15



No. 22

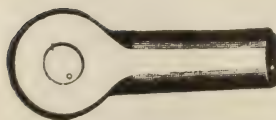
These nuts are specially manufactured for bicycle purposes, are carefully hardened, well nickeled over copper and polished.

No.	Diam. Bolt, inches	Wide, inches	Thick, inches	Thread	Price per Dozen	No.	Diam. Bolt, inches	Wide, inches	Thick, inches	Thread	Price per Dozen
1	$\frac{3}{16}$	$\frac{3}{8}$	$\frac{5}{32}$	32	30c	16	$\frac{3}{8}$	$\frac{9}{16}$	$\frac{5}{16}$	30	35c
2	$\frac{1}{4}$	$\frac{7}{16}$	$\frac{7}{32}$	24	30c	17	$\frac{7}{16}$	$\frac{11}{16}$	$\frac{5}{16}$	20	50c
3	$\frac{1}{4}$	$\frac{7}{16}$	$\frac{7}{32}$	26	30c	18	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{8}$	24	50c
4	$\frac{1}{4}$	$\frac{7}{16}$	$\frac{7}{32}$	28	30c	19	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{8}$	26	50c
5	$\frac{1}{4}$	$\frac{7}{16}$	$\frac{7}{32}$	30	30c	20	$\frac{11}{16}$	$\frac{7}{8}$	$\frac{1}{8}$	24	60c
6	$\frac{9}{32}$	$\frac{1}{2}$	$\frac{9}{32}$	30	35c	21	1	$1\frac{1}{4}$	$\frac{3}{16}$	24	\$1.20
7	$\frac{9}{32}$	$\frac{1}{2}$	$\frac{9}{32}$	32	35c	22	1	$1\frac{1}{4}$	$\frac{3}{16}$	30	\$1.20
8	$\frac{5}{16}$	$\frac{1}{2}$	$\frac{9}{32}$	24	35c	23	$\frac{9}{16}$	$\frac{3}{8}$	$\frac{5}{16}$	Blank	35c
9	$\frac{5}{16}$	$\frac{1}{2}$	$\frac{9}{32}$	26	35c	24	$\frac{1}{4}$	$\frac{7}{16}$	$\frac{7}{32}$	"	35c
10	$\frac{5}{16}$	$\frac{1}{2}$	$\frac{9}{32}$	28	35c	25	$\frac{5}{16}$	$\frac{1}{2}$	$\frac{9}{32}$	"	40c
11	$\frac{5}{16}$	$\frac{1}{2}$	$\frac{9}{32}$	30	35c	26	$\frac{3}{8}$	$\frac{9}{16}$	$\frac{5}{16}$	"	40c
12	$\frac{3}{8}$	$\frac{9}{16}$	$\frac{5}{16}$	22	35c	27	$\frac{7}{16}$	$\frac{11}{16}$	$\frac{5}{16}$	"	45c
13	$\frac{3}{8}$	$\frac{9}{16}$	$\frac{5}{16}$	24	35c	28	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{1}{8}$	"	60c
14	$\frac{3}{8}$	$\frac{9}{16}$	$\frac{5}{16}$	26	35c	29	1	$1\frac{1}{8}$	$\frac{3}{8}$	24	\$1.00
15	$\frac{3}{8}$	$\frac{9}{16}$	$\frac{5}{16}$	28	35c						

Lots of 100 N. P. Nuts, Assorted Threads. Price, hundred, \$2.00

NOTE.—Crosby Nuts Nos. 820, 821 correspond to above numbers 2 and 5, and lock-nuts 822, 823, 825, to numbers 14, 15, 22.

Crank Repair Tips



One of the best selling articles on the market. Cranks broken at the pedal end can be repaired in a few moments. Furnished for round cranks, tapped $\frac{1}{2}$ x 20 thread, right and left.

PRICE

Per pair. 35c

Cotter Pins

No. 1 quality, well nickeled and polished, complete with nut and washer.

PRICES

Slabbed—Sizes, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{11}{32}$, $\frac{3}{8}$ inch. each, 08c



All prices in this catalogue are net.

Hub Axles

Nickeled



FOR GENERAL REPAIRS

No. 1	Front, nickeled	$4\frac{3}{8} \times \frac{1}{4}$ inch 28th	No. 5	Front, nickeled	$4\frac{3}{8} \times \frac{5}{16}$ inch 28th
No. 2	"	$4\frac{3}{8} \times \frac{1}{4}$ inch 30th	No. 6	"	$4\frac{5}{8} \times \frac{5}{16}$ inch 30th
No. 2A	"	$4\frac{3}{8} \times \frac{9}{32}$ inch 30th	No. 7	Rear, nickeled	$5\frac{3}{4} \times \frac{3}{8}$ inch 24th
No. 2B	"	$4\frac{3}{8} \times \frac{9}{32}$ inch 32nd	No. 8	"	$5\frac{3}{4} \times \frac{3}{8}$ inch 26th
No. 3	"	$4\frac{3}{8} \times \frac{5}{16}$ inch 24th	No. 9	"	$5\frac{3}{4} \times \frac{3}{8}$ inch 28th
No. 4	"	$4\frac{3}{8} \times \frac{5}{16}$ inch 26th	No. 10	"	$5\frac{3}{4} \times \frac{3}{8}$ inch 30th

Front Axles, price, each	5c
Rear Axles, price, each	5c

Hub Axle Sets

Handy Axle Sets

$\frac{1}{4}$, Front and $\frac{3}{8}$ Rear sets complete with Round adjustable cones. A good set for the price.

Price—Front or Rear Each, 25c

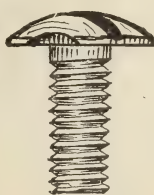


Crank Axle Screws

These screws are a good design and are to screw into end of crank axle. Every repair shop needs them. They are slotted for screw driver and also milled on two sides for wrench. Cuts are actual size, right hand threads. No. 1 is $\frac{1}{4} \times \frac{1}{2}$ inch, 30 thread or blank. No. 2 is $\frac{5}{16} \times \frac{3}{4}$ inch, 24 thread or blank. No. 3 is $\frac{3}{8} \times \frac{3}{4}$ inch, 24 thread or blank. All have $\frac{3}{4}$ inch heads and are nicely nickeled.



No. 1



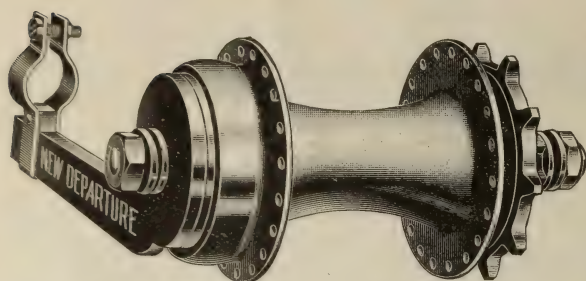
No. 2



No. 3

Price Each, 10c

The New Departure Coaster Brake



The New Departure Coaster Brake is the heart of the modern bicycle. This little device takes the place of the hub in the rear wheel, and resembles the hub in size and appearance.

It is of steel, constructed to withstand hard usage for years.

The mechanism is simple; each of the few parts is large and strong.

New Departures make riding safe, whether speeding along level roads or coasting down steep hills. It halves the pedaling work of the rider,

minimizes fatigue and prevents serious accidents. It saves strain on the wheel, and gives the rider absolute control of his bicycle on any road and under all circumstances.

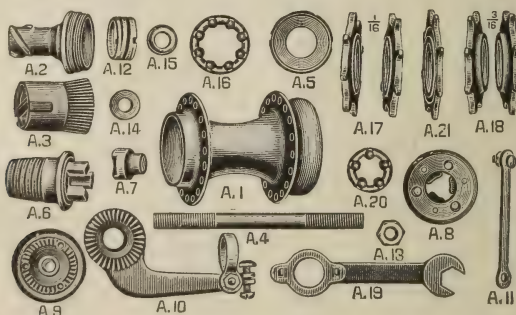
Nearly four million New Departures have been sold and the demand is steadily increasing. New Departures are liberally guaranteed for one year against defective workmanship or material.

Sprockets are supplied $\frac{1}{8}$ inch, $\frac{3}{16}$ inch and $\frac{1}{4}$ inch thick. By the aid of detachable sprockets provision is made for fitting regular hubs with $1\frac{3}{8}$ inch, $1\frac{1}{2}$ inch, $1\frac{5}{8}$ and $1\frac{3}{4}$ inch chain line, and special hubs with $1\frac{3}{8}$ inch, $1\frac{1}{2}$ inch and $1\frac{5}{8}$ inch chain line.

The $\frac{1}{8}$ inch offset sprocket provides for the medium measurements of chain line, and sprockets with $\frac{3}{16}$ inch offset provide for the narrow and wide chain lines. This hub can be taken apart and put together again without the aid of tools.

Price.....Each, \$5.00

New Departure Coaster Brake Part Price List



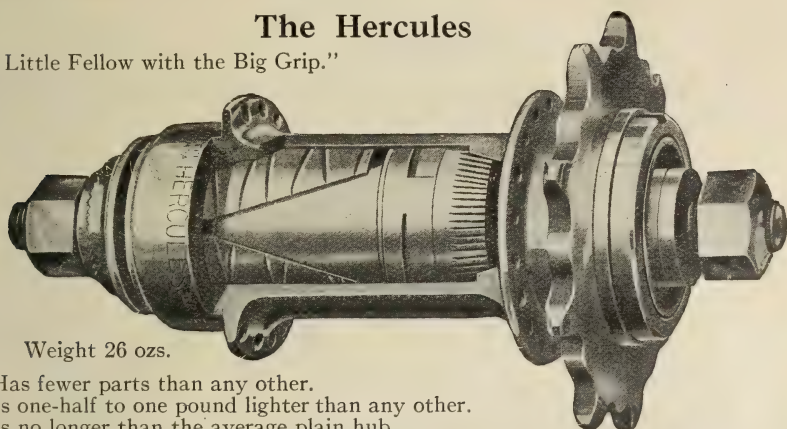
PRICES

	Each		Each		Each
A 1.....	\$1.75	A 7.....	\$0.30	A 13.....	\$0.10
A 2.....	.90	A 8.....	.85	A 14.....	.10
A 3.....	.45	A 9.....	.45	A 15.....	.10
A 4.....	.25	A 10.....	.50	A 16.....	.20
A 5.....	.25	A 11.....	.20	A 17 & 18.....	.40
A 6.....	.60	A 12.....	.15	A 19.....	.10
		A 20.....	.15		

All prices in this catalogue are net.

The Hercules

"The Little Fellow with the Big Grip."



Weight 26 ozs.

Has fewer parts than any other.

Is one-half to one pound lighter than any other.

Is no longer than the average plain hub.

Is as easily and quickly removed from and replaced in the frame as the ordinary hub, because its construction renders a side arm absolutely unnecessary.

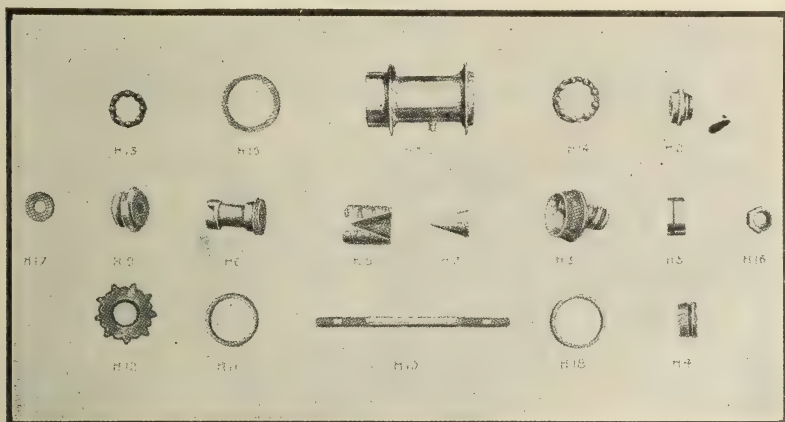
Has less back lash than others, giving better control of the bicycle.

Its construction permits accurate adjustment in the bicycle. It does not have to be put up loosely to enable it to turn freely.

Withal it is a particularly free coaster, positive and quick in driving action; responsive, sensitive and powerful in braking.

No. 0308—Price with sprocket Each \$4.50

Note.—Specify Sprocket required, when ordering.



Hercules Brake Parts

No.	1-H—Hub Shell	Each \$1.50
"	2-H—Adjusting Cone	25c
"	3-H—Driving Worm	60c
"	4-H—Driving Clutch	30c
"	5-H—Clutch Drag	10c
"	6-H—Brake Spool	35c
"	5-H & 6-H Assembled	40c
"	7-H—Brake Wedge	10c
"	7½ — Wedge Shim	05c
"	8-H—Brake Sleeve	50c
"	9-H—Stationary Cone	50c
"	10-H—Axle	20c

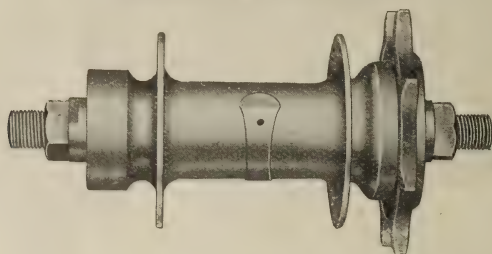
No.	11-H—Sprocket Lock Nut	Each 30c
"	12-H— " 8 to 12 tooth	45c
"	13-H—Small Ball Retainers. (Less Balls)	10c
"	14-H—Large Ball Retainers (Less Balls)	15c
"	15-H—Chain Line Ring	10c
"	16-H—Axle Nut	10c
"	17-H—Axle Nut Washer	05c
"	19-H—Dust Shield	15c
"	20-H—Brake Oiler	10c

All prices in this catalogue are net.

Hubs

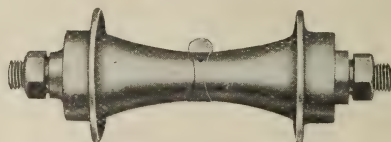
High-Grade Throughout, made from Bar Steel, Turned Cups and Cones

NICKEL-PLATED HUB



Rear Hub, each \$1.75

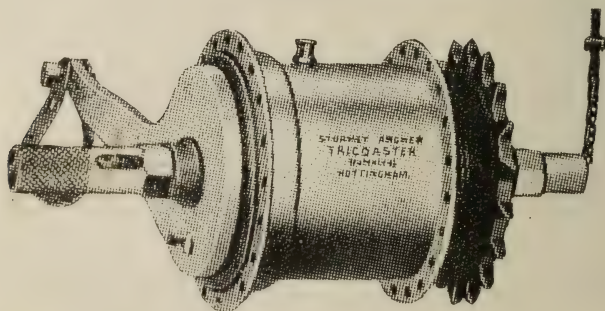
CONCAVE PATTERN HUB



PRICE

Front Hub, each \$0.70

THE STURMEY ARCHER TRICOASTER



The "Tricoaster" contains some of the most important improvements in variable gears. The brake has been so designed that it has a positive release, but at the same time is immensely powerful. If necessary the wheel can be skidded, or, on the contrary, the brake applied with practically the same delicate touch as the usual hand-applied rim brake. In addition to its own particular advantages, it possesses all those to be found in the ordinary Sturmeley-Archer three-speed gear.

Note.—The Three-speed Gear and "Tricoaster" can be supplied for any width of back jaw down to 4 inches. It is drilled for 40-spoke holes only, while the clutch is cut for 9 and 10 x 1 inch chain, 14 and 15 x $\frac{5}{8}$ inches, or 16, 18 and 20 x $\frac{1}{2}$ inch, for $\frac{1}{8}$, $\frac{3}{16}$ and $\frac{1}{4}$ inch width, and for any chain line from $1\frac{1}{2}$ to 2 inches inclusive.

Price Each, \$12.50

All prices in this catalogue are net.

Samson Sulky Wheels

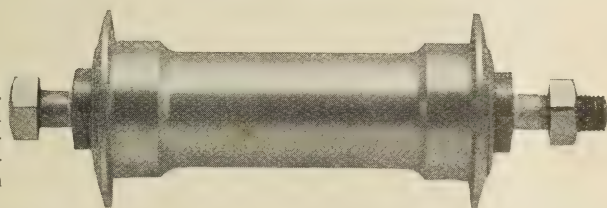


These wheels have been favorites with the racing sulky trade for a couple of seasons and their sale is steadily increasing. They are built with best maple one-piece rims. High-grade spokes and our well-known Samson Sulky Hubs.

PRICE

No. 1—With Knock-out Axles, per pair. \$10.50

Samson Sulky Hubs



With Knock-out Axles.
Contains all latest devices.
Made from solid bar, turned
sleeve, cups, cones, dust-
proof felt washers. The neat-
est design hub ever placed on
the market.

Complete Hubs, price, per pair. \$7.00

Repair Parts

PRICES

Axles, each.	25c	Sleeves, each.	55c
Cone, each.	75c	Nuts, each.	15c
Cups, each.	75c	Washers, each.	5c

Steel Balls

These balls enjoy an enviable reputation in the markets of the world, and when quality is the consideration they have the call.

These Balls are made from the highest grade of Sheffield Tool Steel especially prepared for the purpose, which gives high crushing strain under varying conditions of load. The balls are thoroughly tough in the centre and glass hard on the outside.

We are carrying a stock of all sizes, from $\frac{1}{8}$ to $\frac{3}{8}$ in. inclusive.

Accuracy is a strong point with these balls and they carry an unqualified guarantee to be accurate within the limits of $\frac{1}{1000}$ part of an inch.



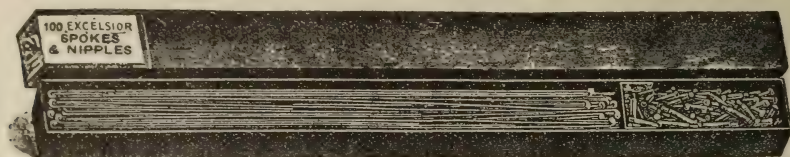
Diameter	Price per 100	Diameter	Price per 100
$\frac{1}{8}$	\$0.25	$\frac{9}{32}$	\$0.75
$\frac{3}{16}$	.30	$\frac{5}{16}$	.90
$\frac{3}{8}$	.35	$\frac{11}{16}$	1.00
$\frac{7}{16}$	.50	$\frac{3}{4}$	1.50
$\frac{1}{4}$	.60		

We cannot fill orders for less than 100 of a size.

All prices in this catalogue are net.

Spokes and Nipples

We will continue to handle Standard spokes and nipples, which are acknowledged the standard of the world.



We continue to supply $\frac{7}{8}$ -in. nipples with all spokes in place of $\frac{3}{4}$ -in., which is the usual length.

To simplify the handling of spokes, we have decided upon stocking 14 x 16 gauge only.

Moreover, we are having all our spokes put up in boxes of 100, complete with nipple, at no extra cost to the trade, and this will be found a great convenience in handling.

Grade	Style	Gauge	Lengths	Per 1,000	Per 100
Standard	{ Swaged H. B. T. & N.P. }	14 x 16	{ 10, 10 $\frac{1}{4}$, 10 $\frac{7}{8}$, 11 $\frac{1}{2}$, 11 $\frac{3}{4}$, 11 $\frac{7}{8}$, 12, 12 $\frac{1}{8}$, 12 $\frac{1}{4}$ }	\$15.00	\$1.50

Lengths for 20-inch Crescent, 8

Lengths for 24-inch Crescent, 10, 10 $\frac{1}{4}$

Lengths for 24-inch Dunlop, 10, 10 $\frac{1}{4}$

Lengths for 26-inch Crescent, 11 $\frac{1}{8}$, 11 $\frac{1}{4}$

Lengths for 26-inch Dunlop, 10 $\frac{3}{4}$, 11

Lengths for 28-inch Dunlop, 11 $\frac{1}{2}$, 11 $\frac{3}{4}$, 11 $\frac{7}{8}$

Lengths for 28-inch Crescent, 12, 12 $\frac{1}{8}$, 12 $\frac{1}{4}$

Lengths for 30-inch Dunlop, 12 $\frac{3}{4}$, 13

Lengths for 30-inch Crescent, 13 $\frac{1}{8}$, 13 $\frac{1}{4}$

Fitch-hair Brushes

Suitable for enamelling purposes.



PRICES

$\frac{1}{2}$ inch.....	Each
1 inch.....	20c.
1 $\frac{1}{2}$ inch.....	25c.
	30c.

Chain Brushes



Chain Brushes.....	Each
	15c.

All prices in this catalogue are net.

Chains



ROLLER CHAIN

Most popular chain on the market. The rollers are turned from the solid bar, accurately drilled, machined and hardened. The bushes, or sleeves, are from a high carbon steel, hardened and toughened by our special process. For the links, a very special quality of steel is employed, capable of withstanding high tension strains. The rivets or studs are dead hard, with shouldered and countersunk ends.

No. 5— $\frac{1}{8}$, $\frac{3}{16}$ and $\frac{1}{4}$ in. 58 links. Stocked in $\frac{1}{2}$ in. and 1 in. pitch.
Price..... Each, **\$1.85**

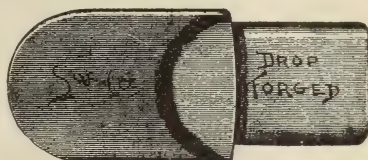
CHAIN BOLTS AND NUTS

Bolts and Nuts, $\frac{1}{8}$, $\frac{3}{16}$ and $\frac{1}{4}$ Doz., **25c**

Fork-end Repair Tip

For repairing the broken ends of Fork-sides. Every repair man will find in this a long-felt want supplied. Made from finest drop forging.

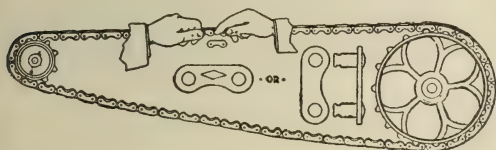
No. 1—1 inch No. 2— $\frac{7}{8}$ inch
Forged, each **10c**



“Diamond” Repair Link

A simple and effective device. A quick method of adding a link or repairing a break.

Price, doz..... **\$1.50**



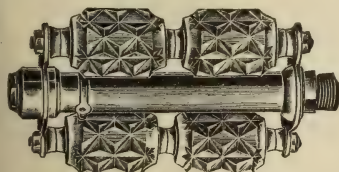
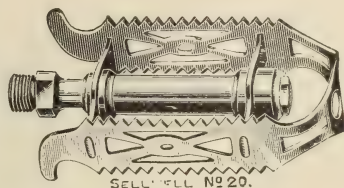
Pedals

THE PIRATE PEDALS

Special Features:—Wide tread and substantial construction.

PRICES

Rat Trap, pair..... **\$0.85**
Rubber, pair..... **1.10**



MAJESTIC PEDALS Solid Rubber

Highly finished, solid centres, best quality rubber,
 $\frac{1}{2}$ x 20.

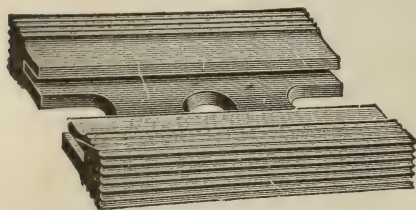
Per pair, Solid **\$1.25**

Pedal Rubbers and Repair Parts

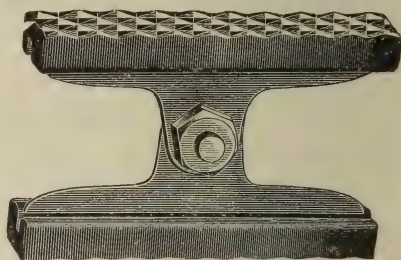


Pins, each.....	25c
Caps, each.....	15c
Rubbers for Pirate Pedals, per set.....	25c

Standard Pedal Rubber



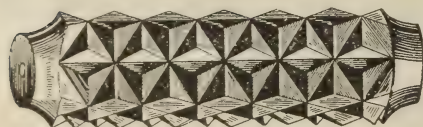
Strauss



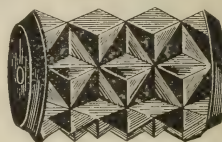
No. 4

Price, per set.....	25c	Price, per set.....	25c
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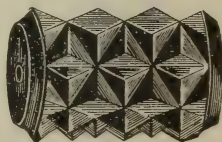
English Pedal Rubbers



Solid



Divided



These pedal rubbers are made of the very best rubber and will stand any amount of rough usage.

PRICES

Solid, per set of four.....	35c
Divided, per set of eight.....	40c

Ball Retainers

Coaster Brake Size

"Old Morrow"	use No. 18 retainers.	
"Morrow"	use No. 23, 55 and 68 retainers.	
"New Departure"	use No. 24 and 46 retainers.	
"Corbin"	use No. 31 and 60 retainers.	
"Atherton"	use No. 19 and 42 retainers.	
"Great Western Manufacturing Co."	Head 29, 36, 73.	
"Great Western Manufacturing Co."	Hanger 51, 56.	
"Forsyth"	use No. 19 and 42 retainers.	
"Mussleman"	use No. 13 and 37 retainers.	C. & M. Co. Brake use No. 23, 55, 68 retainers.
"Acme"	use No. 15 and 62 retainers.	C. & M. Co. Hub use No. 5 retainer.
"Cinch"	use No. 53 retainer.	C. & M. Co. Hangers use No. 46, 60 retainers.



PRICES

Nos. 6, 13, 15, 18, 19, 23, 24, 25.....	Each, 10c
Nos. 29, 31, 37, 42, 46.....	" 10c
Nos. 36, 51, 53, 54, 55, 56, 59, 60, 63, 68, 73, 78.....	" 15c

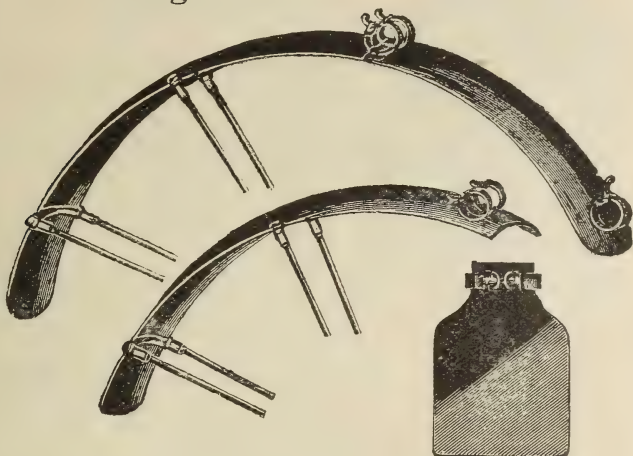
We also have a full assortment of other sizes not listed above.

All prices in this catalogue are net.

Mudguards

ALL-STEEL MUD- GUARDS

We have the best
line of Steel Guards
ever put on the market



PRICES

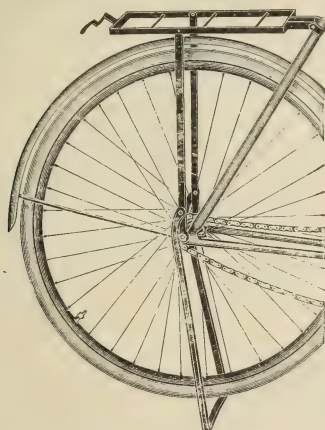
Mudguard Flaps

- No. 840—Enamelled, for men's bicycle, complete with japanned stays, and flap, set. \$1.25
No. 885—As above, less flap75

New Mudguard Flaps

- No. 1—Mudguard flaps, square pattern, enamelled cloth..... \$0.10
No. 2—Mudguard flaps, curved pattern, enamelled cloth, extra large size,25

Combination Luggage Carrier and Channel Stand for Bicycle.



Can be used on any Bicycle and attached very quickly

This Combination has been thoroughly tested by the trade and found to be the only simple, strong method of producing a good carrier and stand that will do the work required of it

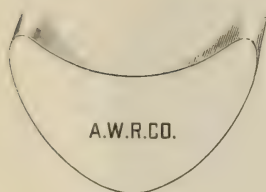
Sells at popular price, each.....\$1.00

All prices in this catalogue are net.

Wood and Steel Rims

Wood rims are made with lumber manufactured from the tree, which enables them to select the straight grained and perfect lumber and only thoroughly dry and seasoned material is used, therefore only the very best rims are produced.

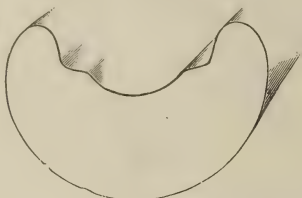
The demand for one-piece rims is increasing from year to year, and we have been obtaining splendid satisfaction in their sale, with a much smaller percentage of returns. We are, therefore, carrying a full stock of one-piece rims, and would recommend them to our trade.



CRESCENT

(28-inch)

One-piece, pair **\$2.00**



DUNLOP

(26 & 28-inch)

One-piece, pair **\$2.00**

One-piece, (20, 24, 30-in.) pair **\$2.50**

One-piece Enamelled Rims, (28-inch) pair **\$2.20**



SPECIAL SULKY or TANDEM

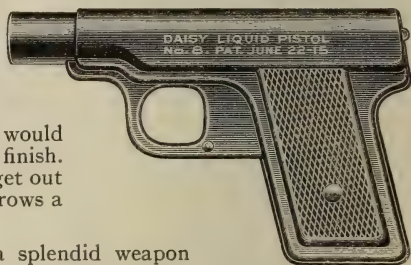
One-piece, pair **\$2.50**

No. 8 DAISY LIQUID PISTOL

Designed after the latest automatic pistol and would readily be taken for one. Made from steel, blued finish. Simple to load and discharge, no rubber bulb to get out of order. Great sport for boys and girls as it throws a fine stream of water a distance of 25 feet.

When dilute ammonia is used it makes a splendid weapon against vicious men or animals. Each in carton. Retail price **\$0.35**

Postage extra, .08



The Falcon Water Pistol

It is a weapon which protects bicyclists against vicious dogs and footpads; travellers, against robbers and toughs; homes against thieves and tramps; and is adapted to many other situations.

It does not kill or injure.

Price, each.....15c

Tires

We carry the Guarantee

Guarantee—We agree with the purchaser of every guaranteed tire purchased from us to make good by repair or replacement, when delivered to us **transportation charges prepaid**, any imperfection or defect in material or workmanship of such tire not caused by misuse or neglect.

Note—This does not cover punctures, tubes damaged by being improperly fitted in their casings, or covers made unsatisfactory through being oil soaked.

Caution—All inner tubes should be partially inflated before being fitted. They are then less liable to become pinched.

We recommend the use of good grade tires, and, while we sell the low-priced kind too, we want to remind you that, especially in rubber goods, quality counts.

Our decision in all cases to be final.



CANADIAN STANDARD SIZES

Measure straight across wheel from centre of underside.

A Wheel measuring:—

17 inches needs a 20-inch tire.

19 inches needs a 22-inch tire.

20½ inches needs a 24-inch tire.

In Canadian Standard Size, the circumference of the Dunlop rim is always the same—whether for 1¼, 1⅜, 1½, or 1⅝ tire.

Note—Unless otherwise specially instructed, all tires are supplied for **Canadian Standard Size Rims**.

A Wheel measuring:—

22½ inches needs a 26-inch tire.

24½ inches needs a 28-inch tire.

26½ inches needs a 30-inch tire.

INSTRUCTIONS FOR ORDERING TIRES FOR ENGLISH BICYCLES

Unlike Canadian or American, on English bicycles the circumference of the rim changes according to the size of tire fitted—the 1⅜ rim is greater in circumference than 1½, and the 1½ than the 1⅜. The circumference of English size steel rims for Dunlop wire-on tires is as follows:—

1⅝-78 27/32 inches; 1½-80 9/32 inches; 1⅜-81 3/32 inches.

This measurement is taken by passing a tape measure around the extreme edge of the rim—or by marking the rim—giving it one complete revolution on a board and taking the exact distance between the starting and finishing points.

In some cases the markings on the old tire will give this information.

DUNLOP TIRES

Wire-edge Type Tires

	Complete Pair Tires	Casings Each	Tubes Each
Traction and Peerless Studded, 28 x 1½	\$10.00	\$3.50	\$1.75
Special, 28 x 1½, and 1⅜, (Canadian and English Sizes)	9.50	3.25	1.75
Electric, 28 x 1½	9.50	3.25	1.75
Hercules Extra Heavy, 28 x 1⅝. Guaranteed for 12 months	11.00	4.00	2.00
Sulky, 28 x 1⅝. Guaranteed for season	13.00	5.00	2.00
Imperial Studded, 26 and 28 x 1½ only. Guaranteed for season	7.50	2.50	1.50
“ “ 20 and 24 x 1½ “ “ “ “	7.00	2.30	1.25
Banner, Studded, (Canadian and English sizes) 28 x 1½. Guaranteed for three months	6.50	2.25	1.25
Challenge, 28 x 1½ only. Unguaranteed	5.50	1.75	1.25

Clincher Type Tires

Hercules Extra Heavy, 28 x 1⅝. Guaranteed for 12 months	\$12.00	\$4.25	\$2.00
G. & J., 28 x 1½ and 1⅝. Guaranteed for 12 months	10.50	3.75	1.75
Dunlop, 28 x 1½ only. Guaranteed for 12 months	10.00	3.50	1.75
Imperial, 28 x 1½. Guaranteed for season	8.50	2.75	1.50
Banner, 28 x 1½ only. Guaranteed for 3 months	7.25	2.50	1.25

Butt-end Tubes

Special, 28-inch only	—	—	1.75
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All prices in this catalogue are net.

Samson Sulky Tires

Single or Double Tube, 26, 28 x $1\frac{5}{8}$, $1\frac{3}{4}$ inches.

Single tube, price, pair.....	} Prices on application
Double tube, price, pair.....	
Samson Sulky Covers, each.....	

Record Tires

60-day Guarantee

The Record Tire has won a name for itself during the past five seasons, and is remarkable for its wearing qualities. While the cost has advanced for 1918, these Tires still represent the best value for the money, and are specified year after year by satisfied users.

PRICES

Record Single Tube	Pair
28 x $1\frac{1}{2}$ or $1\frac{5}{8}$ inches.....	\$6.00
26 x $1\frac{1}{2}$ inches.....	6.00
24 x $1\frac{1}{2}$ inches.....	6.00
20 x $1\frac{3}{8}$ inches.....	5.00



The Milwaukee Tires

Are Puncture Proof

The tread of the Milwaukee Tire is composed of three alternate layers of carborundum and fabric in addition to the two plys of fabric that form the foundation of the sheath.

The three layers of tread strips are separately treated with rubber cement and carborundum, and the meshes of the fabric are completely filled. Both sides of the strips are then treated with the carborundum material. The three strips are used between the two main plys of fabric, which prevent any possibility of separation.

Price, pair\$9.00



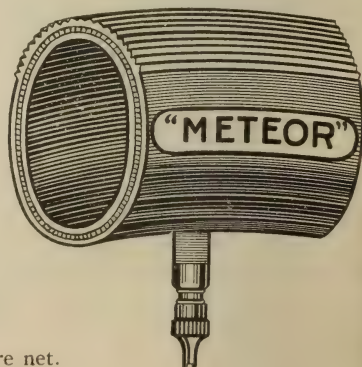
Reliance Tires

Absolutely Unguaranteed

The Reliance Tire, at the present low price we quote, should do away with the need of handling the worthless stuff that has so long been a drug on the market. The Reliance is splendid value, and a tire that will hold air and stay solid.

PRICE

Single tube, 28 x $1\frac{1}{2}$, pair..... \$5.20



All prices in this catalogue are net.

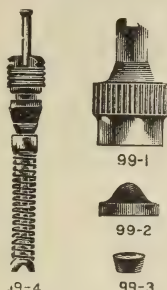
Tire Repairing Supplies



Shoe Style.



Regular Style.

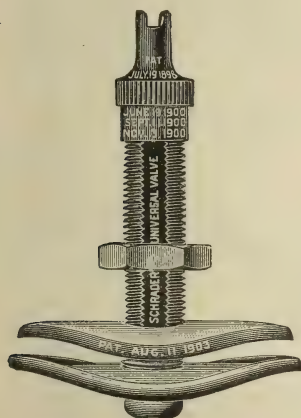


Valve Parts Separately.



Valve Capped to Stem.

Article	Doz. Lots.	Less, each.	Article.	Doz. Lots.
Dunlop Shoe Valves.....	\$3.75	35c	Schrader Valve Parts:—	
Schrader, capped to stems.....	2.30	20c	No. 1—Cap.....	60c
			No. 2—Cap washer.....	15c
			No. 3—Seats.....	5c
			No. 4—Springs.....	90c
			No. 4—Plungers.....	
			No. 4—Seats.....	



Price, each..... 25c

Samson Shoe Valves

(Schrader Stem)

Its many advantages over the ordinary shoe valve:—
Will hold where the other shoe valve has torn out.
Absolutely impossible for it to cut.

Will not pull loose, even if tire creeps.

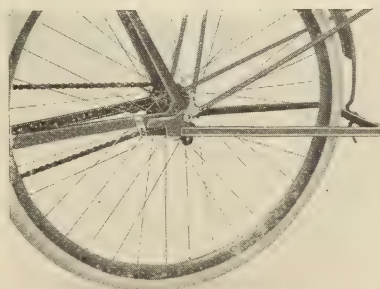
No matter how thin or poor the tire, it cannot tear loose.

It conforms to the shape of tire.

Will hold firmly no matter how "squashy" or full of tire fluid.



INSERTING BOTTOM PLATE.



Bicycle Stand

Is attached to rear axle and can be used as a shop display stand, or for bicycle delivery work.
Made of channel steel, enamelled black

Price, each..... 50c

All prices in this catalogue are net.

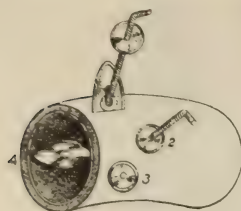
Tire Repairing Supplies

"SAMSON" BALL-BEARING PUNCTURE CLOSER

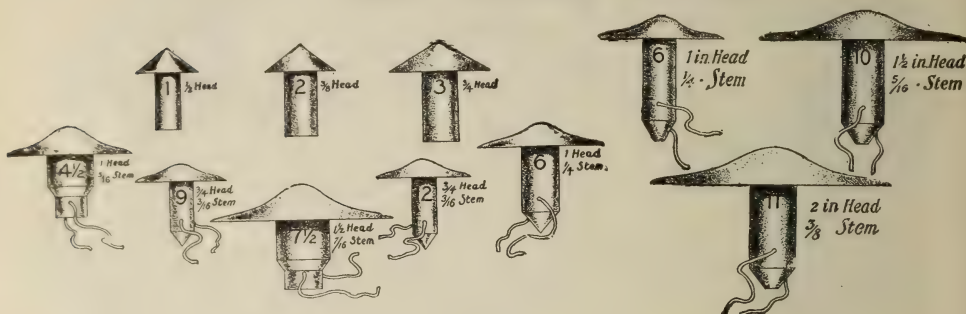
For Mending Single-tube Tires Permanently

The "Samson" Puncture Closer is so well known and liked that detailed description is unnecessary. They are made of brass and supplied in three sizes.

Price, per doz..... 96c

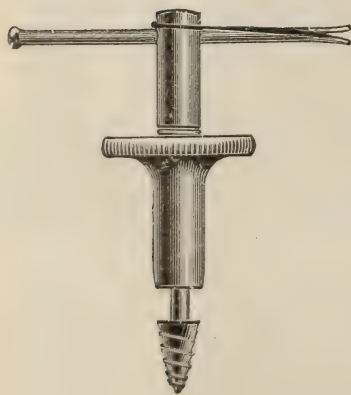


C. O. T. STRING AND REPAIR KIT PLUGS



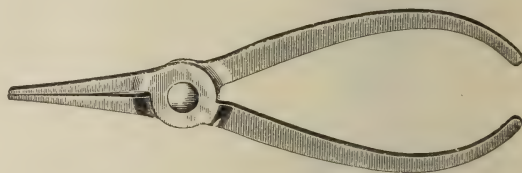
PRICES

	Per doz.
Small	35c
Medium	50c
Large	75c



PLUG CUTTING TOOLS

Price, each 25c



PLUG PLIERS

Price, each 10c

THE WALD REPAIR TOOL

The best tool made for repairing tires with rubber bands. Release a little catch and all the bands snap into position instantly and all at once, which is important.

Price, each..... 35c

All prices in this catalogue are net.

Cements

"SAMSON"

RUBBER

CEMENT



"SAMSON"

WOOD RIM

CEMENT



PRICES

	Doz
$\frac{3}{4}$ x 4-inch tubes (rubber or wood rim).....	\$0.50
2-oz. bottles (wood rim) with swab.....	1.20
2-oz. bottles (rubber).....	.75
$\frac{1}{4}$ -pint cans (rubber).....	1.50
$\frac{1}{4}$ -pint cans (wood rim).....	1.50
	Each
Pint cans (rubber).....	\$0.50
Quart cans (rubber).....	1.00

NEVERLEAK TIRE FLUID

This well-known preparation does not require extended description.

With Display Stand.

Price, doz..... \$2.00
 " each..... .20



"HIGH PRESSURE" JIFOID SOLUTION



This is a self-healing, heavy solution, and on being forced through a puncture in a single tube tire will fill up and stop the leak without the use of the patch or plug. This is the cement to use in replenishing quick repair outfits.

$\frac{3}{4}$ x 4 in, doz..... \$1.00

All prices in this catalogue are net.

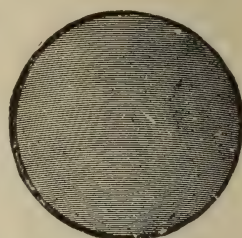
Thin Flat Rubber Patches

For Bicycle Inner Tubes

These patches are cut from thin rubber of exactly the same quality and thickness as inner tubes. Sold in bulk by the pound or put up 100 in a neat, strong, clasp envelope. They run on an average a little over 1,000 to the pound. In envelopes is the best way to handle them. They are splendid sellers.

PRICE

Per 100..... 75c



Cut actual size

Rubber Patching in Rolls

Quality Guaranteed

PRICE

36 x 2, per roll.....	50c
18 x 2, ".....	25c

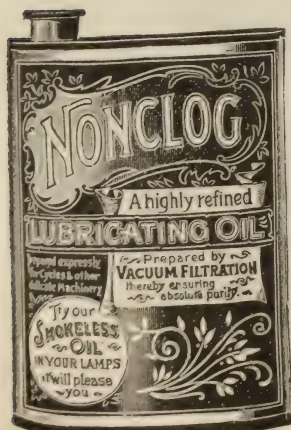
"High Pressure" Stick Graphite

Per doz.

$\frac{5}{8}$ x 2 $\frac{3}{4}$ -inch stick. Black. Wrapped in heavy tinfoil.....	20c
$\frac{5}{8}$ x 4-inch stick. Black. Wrapped in heavy tinfoil.....	25c
$\frac{3}{4}$ x 4-inch tin boxes. Black.....	75c



High-class Illuminating and Lubricating Oils.



Illuminating and burning. Elaborately put up in nicely enamelled tins, a nice article for window and store display.

PRICES

ILLUMINATING OIL

$\frac{1}{2}$ -pint bottle, each. 15c

LUBRICATING OIL

$\frac{1}{2}$ -pint tins, each. 20c



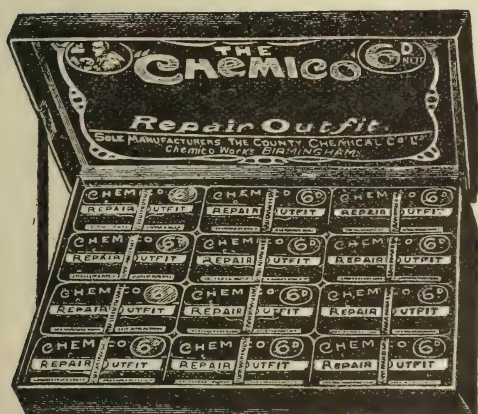
All prices in this catalogue are net.

Tire Repair Outfits

Tire Repair Outfits retain their popularity with the cyclist, and our sales continue to increase.

The abnormal prices of rubber compelled us to considerably advance our prices last year. This year we add a slight advance on our **old** prices, whilst quality is rigidly maintained.

POPULAR OUTFIT



A phenomenal success. The most attractive, the best filled, and the best value in repair outfits ever put on the market. Size, 2 x 3 inches.

PRICE

6d. size, each..... 15c

Motor Cycle Outfits



G. B. RELIANCE REPAIR OUTFIT

The Best Outfit of its kind
on the Market

Fitted with a good assortment of Reliance Patches, Reliance Rubber Solution, French Chalk. Size, $3\frac{3}{4}$ x 4 inches.

Price, each..... 60c

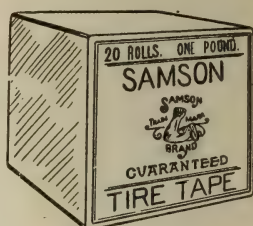
All prices in this catalogue are net.

Tire Tape

SAMSON TIRE TAPE

Black

We specially recommend our new size package, which runs twenty rolls to the pound, wrapped in tinfoil and packed in neat carton. This makes a very profitable article to sell at the popular price of 5 cents, and at the same time is better value to the consumer than the half-ounce roll.



PRICES

16 rolls to the lb., doz.	40c
Any size package, per lb.	50c



ELECTRICIANS' OR REPAIR SHOP TAPE

We are offering a new style package in **Samson** black tape which will keep fresh indefinitely, being put up in 1/2-pound packages wrapped in tinfoil.

Indispensable to electricians and repairmen.

PRICE

1/2-pound packages, each.	25c
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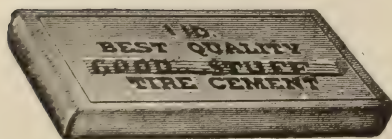
Samson Rim Shellac

We are still handling this well-known line of Rim Shellac; put up in bottles with swab.

Price, each.	15c
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Goodstuff Genuine English Hard Cement



To those who have experienced the disastrous results of using inferior cements, we offer "Goodstuff" Genuine English Cement as a fully warranted article. Goods taken back and money refunded if not satisfied.

1 lb., in paper, price.	35c
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All prices in this catalogue are net.

Oils

"3-IN-ONE" OIL

For Bicycles

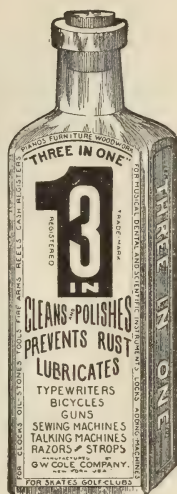
Lubricates chain bearings and all points of friction. Never gums. Cleans quickly and thoroughly all parts. Adds lustre to enamel, nickel and steel. Prevents rust forming on nickel and steel.

PRICES

	Each
Small size.....	15c
Large size.....	25c
Factory size.....	50c

SAMSON LUBRICATING OIL

It is desirable to use a high grade of oil since the large bearings have come into favor. This oil is guaranteed to be the best.



This oil is neatly put up in 2-oz. bottles, one dozen in an attractive carton. It is a rapid seller.

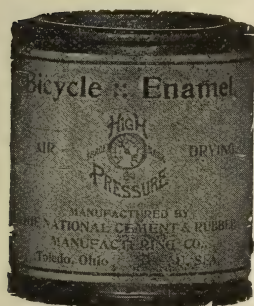
2-oz bottles, price, per doz..... 60c

Air-drying and Baking Enamels

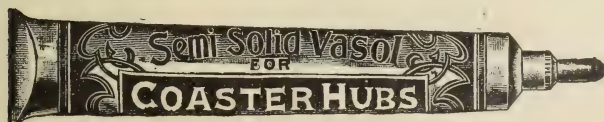
Our bicycle enamels have attained a wide reputation for their superior quality. The special features of our enamels are rich full colors, toughness, elasticity, brilliancy of finish, and uniformity of color and quality. Supplied in all colors.

"HIGH-PRESSURE" AIR-DRYING ENAMELS

	Each
Black, ¼-pint can.....	15c
All colors, (except white) ¼-pint can	20c
White, ¼-pint can	25c
Aluminum, ¼ pint can	30c



Semi-solid Vasol for Coaster Hubs



This preparation is of special value as a lubricant for coaster hubs. It prevents heating and is an ideal lubricant.

PRICE

¾ x 4-inch tubes, each..... 15c

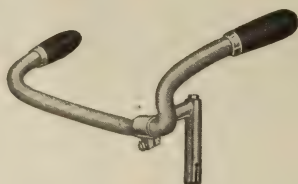
All prices in this catalogue are net.

Handle Bars

PERFECTION ADJUSTABLE BARS



No. 4

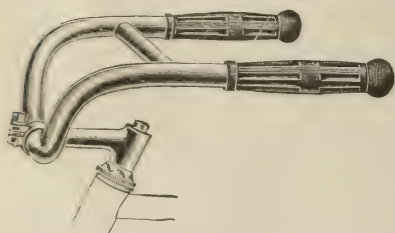


No. 7



No. 20

Motor Bike Handle Bars



No. 986

PRICES

No. 4—20 inches wide, 2-inch drop, 2¼-in. forward, each	\$1.00
No. 7—Forward extension stem, each	1.40
No. 20—Motor Bike Handle Bar, each	1.50
No. 986—Motor Bike Junior Handle Bar, each	2.50

Grips are not supplied with handle bars

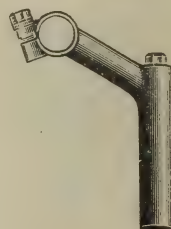


No. 1

Forward
Extension Stem



No. 92



Gooseneck

Perfection Stem only

No. 92—Expanding, each	45c	No. 1—Forward expanding, each	60c
Gooseneck forward expanding	60c		

Handle Bar Bolt (with Expander Plug)



$\frac{5}{16}$ -inch diameter bolts, 5, 6 and 8 inches long.

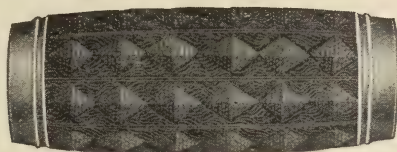
Price, 5 and 6-inch, each	15c
Price, 8-inch, each	20c

All prices in this catalogue are net.

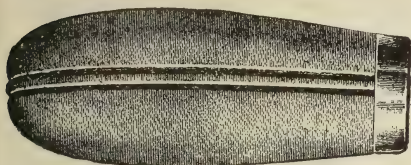
Handle Bar Grips



No. 5—This Grip is solid wood, leather bound and bored for handle bar.



No. 12—Exonite Grips



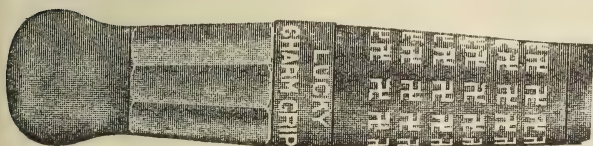
No. 8—Best Grain Leather Sewed Bicycle Grip, with improved end tip Very popular.



No. 11—Wear Well

Red rubber nicked tips. Very easy and no more perspiration of hands for riders.

LUCKY CHARM RUBBER BICYCLE GRIP



This grip is moulded on the long motorcycle type from excellent quality rubber. Very best construction; strong and durable and will give perfect satisfaction.

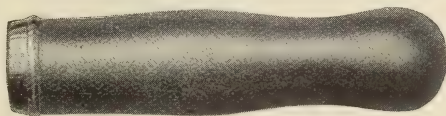
No. 5, pair	15c	No. 12, pair	20c
No. 8, pair	35c	No. 11, pair	20c
Lucky Charm, pair	40c		

Tool Bag



No. 1—Best grained leather color. This Tool Bag is certainly the best value ever offered for the price.
Price, each 50c

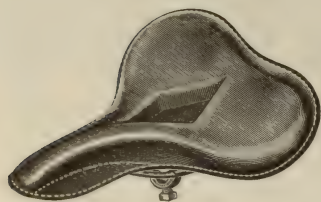
Bull Dog Bicycle Grip



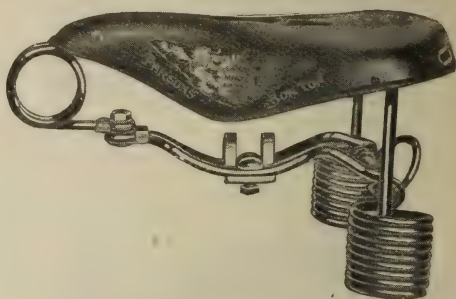
Bull Dog. First quality sewn-leather grips. $\frac{7}{8}$ -inch.
Price, pair 50c

All prices in this catalogue are net.

Saddles

**NUMBER F-6 JUVENILE**Size, $7\frac{3}{4} \times 6\frac{1}{4}$ inches

Price \$1.00

**BON TON SADDLE**Size, $9\frac{3}{4} \times 7\frac{1}{2}$ in. Weight, 3 lbs. 2 oz.

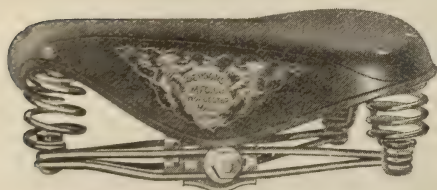
Price..... \$2.00

**SIMPLEX SADDLE**Size, $10\frac{1}{2} \times 8$ in. Weight, 1 lb. 6 oz.

Price \$2.25

**KINGDOM SADDLE**Size, $10\frac{1}{2} \times 8$ in. Weight, 2 lbs. 4 oz.

Price..... \$2.25

**LADY'S KINGDOM SADDLE**Size, $10\frac{1}{2} \times 8$ in. Weight, 2 lbs. 4 oz.

Price \$2.25

**MOGUL SADDLE**Size, $10\frac{1}{2} \times 8$ in. Weight, 1 lb. $7\frac{1}{2}$ oz.

Price \$2.50

All prices in this catalogue are net.

Saddle Springs



SPRINGS PATENTED NOV. 13 1900

OLESON SADDLE SPRINGS

The three coil springs are neatly packed in a box with all necessary bolts and nuts.

Coil springs, set of 3..... 35c

UNIVERSAL SADDLE SPRING All Assembled and Nickeled



Each..... 50c

SPIRAL SPRING



SPIRALS

Each, 15c

The Bicycle Horn

YOU HAVE BEEN LOOKING FOR

Type B-M

Size 3 x 3 inches. Weight 1 pound.
Finish all Black

The first and only practical Horn for Bicycles ever placed on the market.

A miniature automobile Horn. Every part interchangeable.

Beautiful in design.

Emits a loud sound at the slightest touch of the plunger.

Our Guarantee-Horn to give permanent satisfaction.

Price, each \$1.40

TYPE B.

Size 4 x 5½ inches.

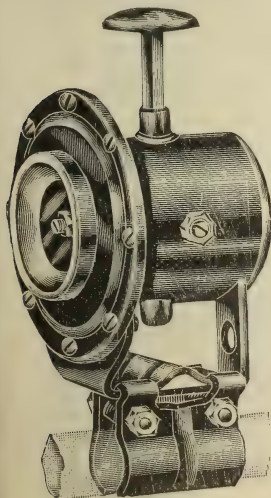
Weight 2 pounds.

Top Tube Bracket.

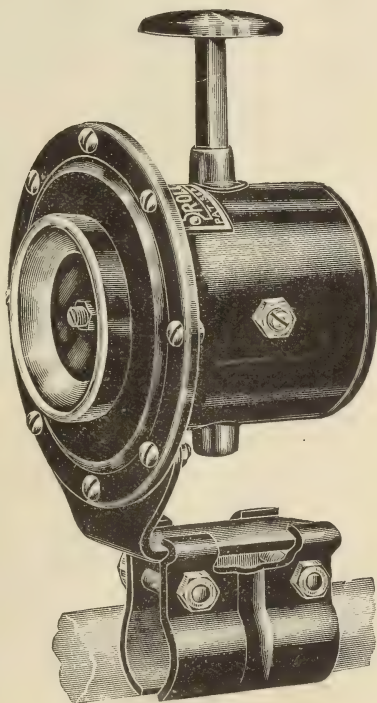
Handle Bracket.

Finish, Black and Nickel and all Black.

Price, each \$2.50



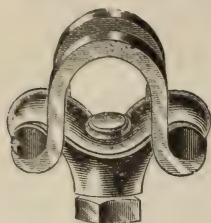
B M



B

All prices in this catalogue are net.

Saddle Clamps



Style No. 1

Each..... 20c

Saddle Bolt



With Nut and Washer

These we carry in two sizes. Nickel-plated.

No. 1 is $\frac{1}{4}$ -inch diameter, $\frac{1}{2}$ -inch long, and head is $\frac{5}{8}$ -inch diameter.

No. 2 is $\frac{5}{16}$ x $\frac{5}{8}$ inch, with $\frac{5}{8}$ -inch head. Price, each..... 10c



No. 94

Seat Posts

No. 94 is very popular. Tops made of drop forgings; stems, seamless tubing. We stock No. 94 in $\frac{7}{8}$, both in 5 and $8\frac{1}{2}$ -inch lengths.

PRICES

No. 94—3 x 5 x $\frac{7}{8}$ inches, each..... 60c

No. 94— $4\frac{1}{2}$ x $8\frac{1}{2}$ x $\frac{7}{8}$ inches each.. 75c

Lamps

COLUMBIA AUTOMATIC GAS LAMPS

WATERFEED—Automatic, i.e., requires no regulator. Water flows proportional to flame set.

WATER VALVE is self-cleaning; only perfect working valve made.

GAS VALVE regulates size of flame high or low—only lamp on which you can regulate the flame in this manner.

WATER DISTRIBUTOR—Our patent winged water distributor is the most perfect made. No carbide is wasted, and charge can be used repeatedly until exhausted.

CARBIDE CAN is telescopic and dust proof; is a reloadable cartridge in fact, and can be carried in the pocket loaded without detriment to charge; is easily charged and cleaned as a tea-cup.

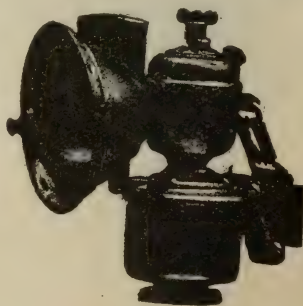
Price, each..... \$3.50



THE PANTHER GAS LAMP

The Panther is an English Gas Lamp of approved design. It is fitted with a pencil tip, and consequently burns less gas than the fish-tail burner lamp, while the light given is ample. Constructed in the usual substantial British manner, being made entirely of brass and well nickeled. Packed in attractive cartons, and excellent value at the price we name.

Price, less bracket..... \$2.00



All prices in this catalogue are net.

Lamps—Continued

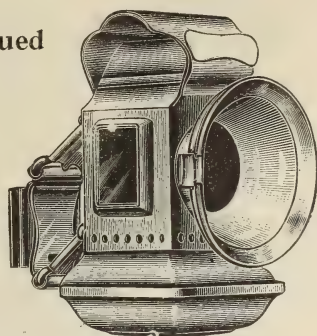
THE DEMON

Japanned

A well-made, cheap, reliable oil lamp, with lens to open at front; loose bottom and sliding side light.

Perfect in design and detail; plated parts and detachable reflector.

Price, less bracket, each..... 80c

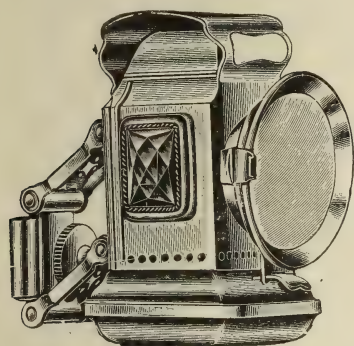
THE DEMON
Nickel-plated

Although the "DEMON" is renowned as a cheap oil lamp, yet it is so thoroughly well made that it will compare favorably with the best. It contains all the latest improvements, sliding side lights, screw sockets, best double convex lens.

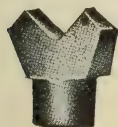
The body opens upwards, exposing the whole of the interior for cleaning.

It has the best class of spring back as applied to the higher grade lamps, which makes it a superior article altogether.

Price, less bracket, each..... \$1 00



Acetylene Lamp Burners

SOLAR AND COLUMBIA
LAMP LAVA TIPS

$\frac{1}{4}$ foot, price, each..... 10c

PANTHER LAMP BURNER



Price each 10c

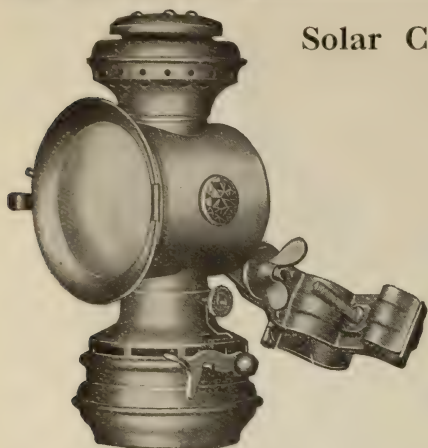
PRICE LIST OF LAMP PARTS

For Panther Lamp

Water Feed Screw	\$0.25	Pad Plate Nuts.....	\$0.05
Carbide spring.....	.15	Felt Washer.....	.10
Bottom screw.....	.25	Bracket for back of lamp.....	.40
Carbide tank.....	.25	Bracket for head of bicycle.....	.15
Screen tube.....	.10	Filler cap.....	.10
Large washer.....	.10	Adjusting screw (at back of lamp) ..	.10
Small washer.....	.10	Panther hood.....	.50
Burner.....	.10	Lenses.....	.25
Pad Plates.....	.15		

All prices in this catalogue are net.

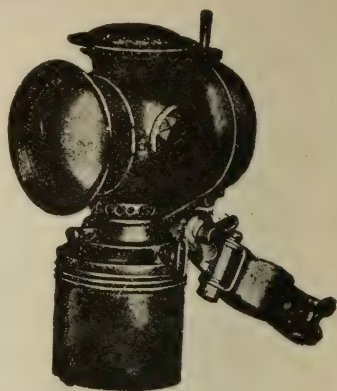
Solar Cycle Lamps



THE SOLAR OIL CYCLE LAMP

Will not smoke, jar or blow out by any conditions of road or weather. Burns ten hours. Combines the best features of other oil lamps and avoids their faults. Is made entirely of brass, richly nickel-plated; is 6 inches high and has removable top head, aluminum reflector and wick lock burner.

Price..... \$2.00



THE SOLAR GAS CYCLE LAMP

Larger water tank. Larger door, which spreads the rays. Larger reflector. Improved tank, stronger bracket, making it the handsomest lamp in the market.

The lamp that made acetylene gas famous, an acknowledged leader and standard of cycle and carriage lamps.

Price..... \$3.50

List of Solar Parts

Parts	Each
B Screen tube.....	\$0.10
B1 Screen tube plate.....	.10
B2 Carbide spring.....	.10
C Washer plate.....	.10
C1 Washer plate nut.....	.05
D Rubber washer.....	.10
E Fibre wick.....	.10
F Wick tube cap.....	.05
F1 Wick tube.....	.15
G Water valve.....	.40
G1 Water valve washer and nut.....	.05
H Filler cap.....	.10
H1 Filler cap washer.....	.05
I Tip holder.....	.10
J Tip.....	.10
K Ratchet screw.....	.10
L Reflector.....	.10

Parts	Each
M1 Lens door.....	\$0.25
M2 Lens.....	.25
M3 Lens wire.....	.10
N Bracket, complete.....	.75
O Bracket, side r. h.....	.15
O1 Bracket, side l. h.....	.15
P Clamp thumb screw.....	.10
Q Clamp thumb screw nut.....	.05
R Carbide tank.....	.50
S Ratchet screw thumb nut.....	.05
T Pivot bolt.....	.10
U Pivot bolt nut.....	.05
V Ratchet arm.....	.10
W Bracket lining.....	.05

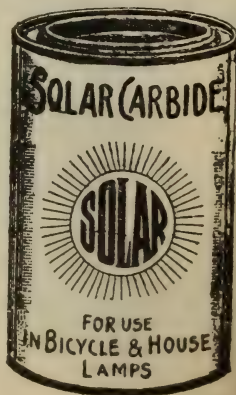
No. 3—Dash bracket for buggy.....	Each \$0.75
No. 4—Filler cap handles.....	.75
No. 5—Bracket handles.....	.75

Solar Carbide—Bicycle Sizes

Solar Brand Carbide is best quality manufactured, and will be found uniform and reliable.

Put up in very handsome lithographed tin.

PRICES	Each
1-lb. cans.....	\$0.15
2-lb. cans.....	.30
5-lb. cans.....	.55



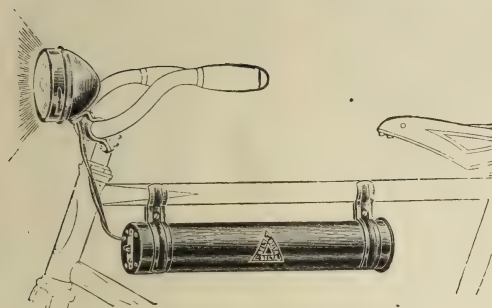
All prices in this catalogue are net.

Electric Bicycle Headlights

No. 28

DELTA TWO-CELL ELECTRIC BICYCLE LAMP

Price \$3.00 Complete with Battery



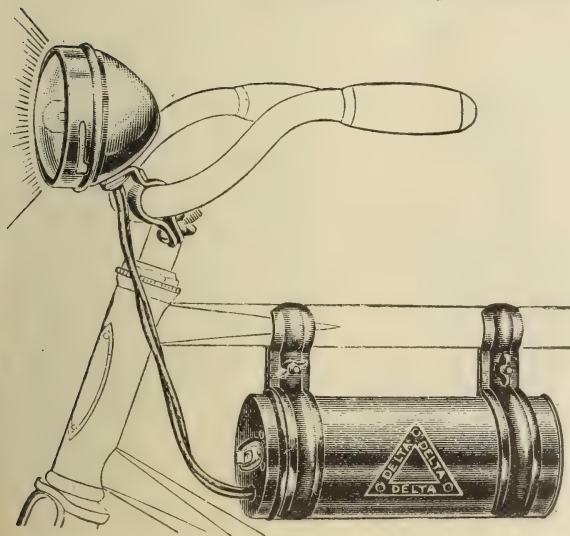
finished in rich black enamel thoroughly baked. Battery case clamps constructed out of metal rigidly fastened to battery case, clamping firmly to the cross bar of the bicycle. Twenty-four inches of special weatherproof flexible wire. Switch located on battery case, making it more convenient than on the headlight.

This lamp is built for a lifetime of service with ordinary usage. Parts which wear, such as the wire, can be renewed by a small boy with any kind of a screwdriver, while parts liable to be broken, such as the lens and bulb, can be replaced without any trouble

EQUIPMENT — Headlight finished handsomely in Enamel, equipped with a powerful silver-plated parabolic reflector, and extra fine DELTA hand-made tungsten bulb. Battery case substantially made out of sheet steel, handsomely

No. 27 DELTA ONE-CELL ELECTRIC BICYCLE LAMP

Price \$2.00 Complete with Battery



EQUIPMENT — Same as No. 28 except has one-cell battery case. Battery case is attached to cross bar of bicycle with ribbed sheet steel clamps, making a very attractive arrangement as well as being most substantial

The controlling switch is located on the battery case.

Extra No. 6 Battery,	
each	40c
No 28 Bulb.....	25c
No. 27 Bulb.....	25c

All prices in this catalogue are net.

Brackets and Clips

STANDARD HEAD BRACKET



Price, each..... 15c

COMBINATION BAND TROUSER CLIPS



With lock, nickel-plated
Per pair..... 10c

RUGBY TROUSER CLIP



We have no hesitation in saying this is the best clip we have ever made—grips the trousers hard and stays on.

Per pair..... 5c



Spring steel tempered guard, light and durable

Per pair..... 5c

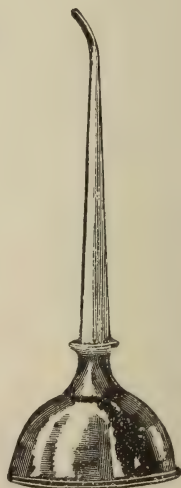
Bicycle Oilers



"HAWK"
Each, 12c



"EAGLE"
Each, 12c



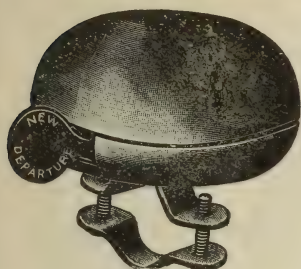
"HANDY"
Each, 25c



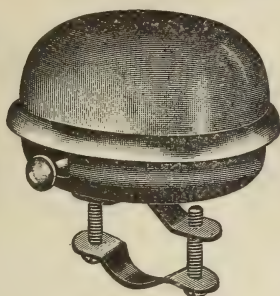
"EXTENSION"
Each, 15c

All prices in this catalogue are net.

Our Bells are Leaders

**Leader, Plain**

A good low-price bell.

**No. 403****Leader, Fancy.**

An attractive bell with ornamental gong

2 in., price, each. 20c

2 1/4 in., price, each. 25c

Push-button continuous alarm.

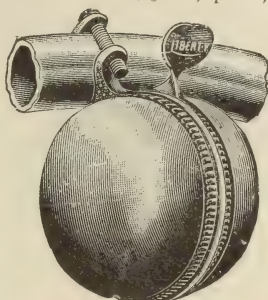
2 1/2 in., price, each. 45c

2 1/8 in., price, each. 35c

**No. 413 Union Jack**

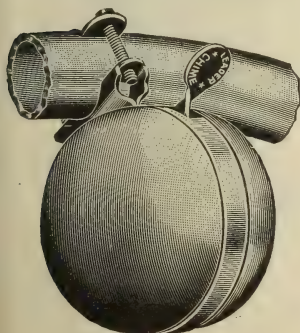
A handsome, clear tone bell, in enamelled colors

2 1/4 in., price, each. 75c

**No. 35C**

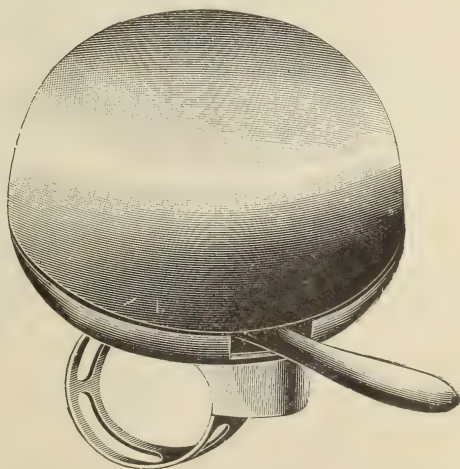
The best continuous ringing double-stroke chime bell, pleasing tone with two revolving gongs.

2 1/4 in., price, each. \$1.00

CONTINUOUS RINGING CHIME**Leader Chime, 2 1/2 inch**

A loud, clear, chime-toned bell, with wrought gong. Rotary electric mechanism, operated by lever. Alarm continues during forward and backward action of the lever.

Price, each. 60c

**THE BRONKO 3-IN. ROTARY**

Made of high-grade bell metal, electric, giving loud, clear alarm, very strong; price, each. \$1.00

All prices in this catalogue are net.

Whistles



THE ACME WHISTLE

The loudest, neatest, and one of the best calls on the market. The greatest call for the bicycle rider.

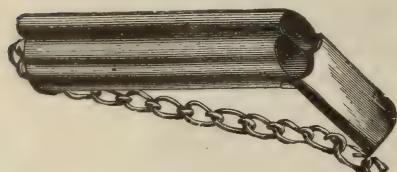
Price, each. 15c



WHISTLES "ECHO"

The loudest, neatest and best call on the market. Can be carried in vest pocket, and is the greatest call made for bicycle-riders, huntsmen, policemen, and car-drivers. Nickel-plated.

Each. 20c



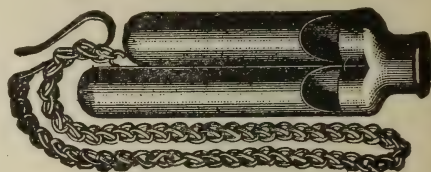
"DUPLEX" WHISTLES

The "Duplex" is a great favorite with wheelmen. Nickel-plated.

No. 3—Small, each. 20c

No. 2—Medium, each. 20c

No. 1—Large, each. 25c



No. 125—POLICE CALLS

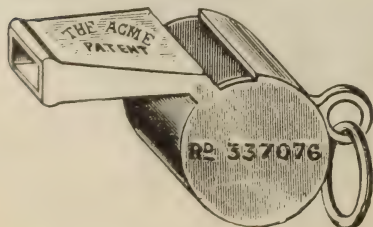
Double tube, with chain, nickel-plated.

Each. 20c

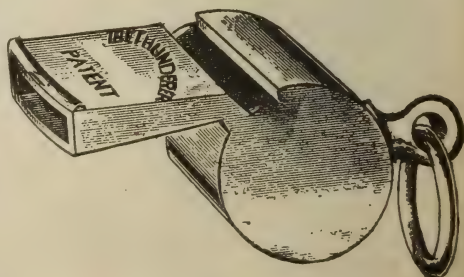
REFEREE WHISTLES



No. 948—Highly polished and nickel-plated, each. 25c



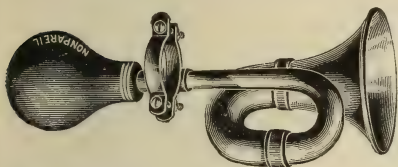
No. 966, each. 20c



No. 959 $\frac{1}{2}$, each. 30c

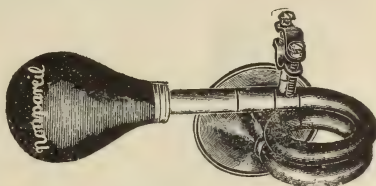
All prices in this catalogue are net.

Horns



No. 18. Bell $3\frac{1}{4}$ in., length 9 in., nickel-plated.

Price, each..... \$1.20



No. 19. Bell $3\frac{1}{2}$ in., length $9\frac{1}{2}$ in., nickel-plated.

Price, each..... \$1.75



No. 21. Bell $4\frac{1}{4}$ in., length $8\frac{3}{4}$ in., nickel-plated.

Price, each..... \$2.00



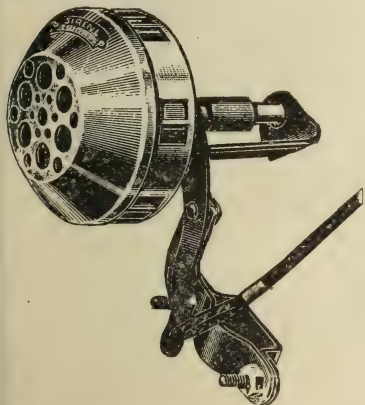
No. 122. Bell $4\frac{1}{2}$ in., length 12 in., nickel-plated.

Price, each..... \$2.25

HORN PARTS

Bulbs, each..... 50c

Reeds, "..... 20c



Sirens

The Triumph Bicycle Siren

Nickel-plated

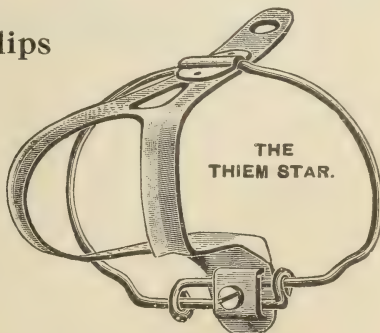
A very loud, attractive signal.

This fits on the front fork, and is operated by spring and attachment cord from the handle-bar, causing a roller to bear down on the tire, and a very shrill sound is produced.

Each siren packed separately in a nice cardboard box.

Price, each..... \$1.00

Toe Clips



They will not chafe the shoes and will not cause any disagreeable pressure on the feet.

Thiem, Star, price, per pair..... 20c

All prices in this catalogue are net.

Rear Luggage Carriers and Wire Baskets

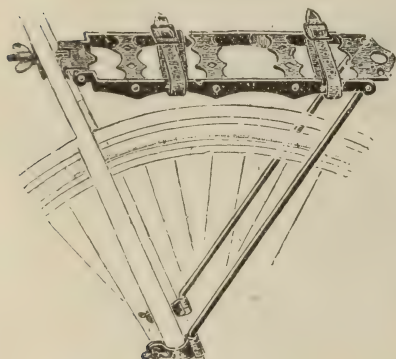
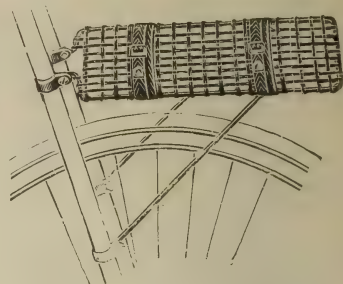
REAR LUGGAGE CARRIER

Small Mesh. Enamelled.

Complete with two straps for oval, round or D rear stays.

Size 13 x 5½

No. 12—Price, each..... 50c



REAR LUGGAGE CARRIER

Made of Flat Steel

Flat steel with round wire stays. The strongest rear luggage carrier on the market. Enamelled and nickel-plated. Size 13 x 5¼.

PRICES

No. 16—Nickel-plated, each..... \$1.10

No. 19—Enamelled, each..... 75c

THE ANDROCK BICYCLE BASKET

Just the thing for delivering small packages.

Handy for the workman who carries his lunch.

Extra clothing and kit can be carried on country runs.

Sells well and leaves a good profit.

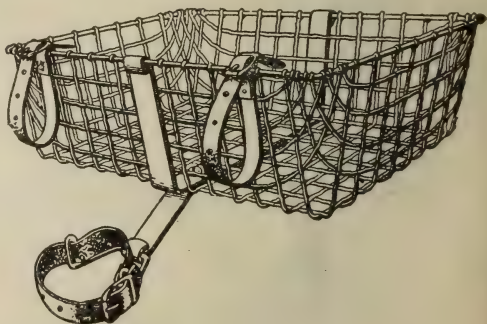
Large and roomy.

Fastens securely to the wheel with strong leather straps.

Can't scratch the enamel or the nickel.

Cannot jar loose from the wheel. Adjustable to any length head.

Strong, will stand up under the roughest usage.



No.....	1	2	3
Size.....	8 x 13 x 4½	10 x 15 x 4¾	12 x 18 x 6
Price.....	70c	80c	\$1.10

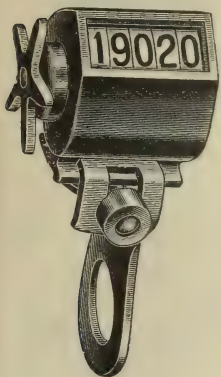
All prices in this catalogue are net.

Veeder 10,000-mile Regular and Trip Cyclometer

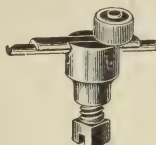
Absolutely positive mechanism. Cannot skip or register too much unless first broken.

Regular style made for 26, 28 and 30-in. wheels. Weight, 1 ounce.

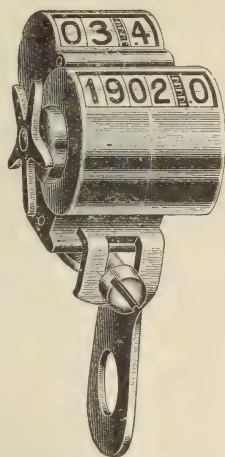
Repeat and Trip Cyclometer, made for 28-in. wheels. Weight, 2 ounces.



PRICES	
Regular.....	Each \$1.10
Trip.....	2.50
Extra Spoke Pin.....	.25
Extra Bracket .....	.25



Veeder Spoke Pin



Peero Folding Stand

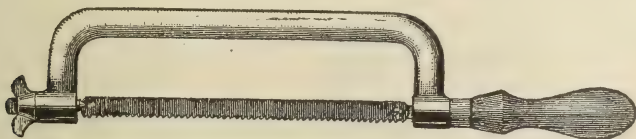
It has adjustable closing locks which hold bicycle firmly and allow it to be moved without being taken from stand.

Price, each.....\$ 1.60



ALUMINUM FINISH

Adjustable Hack-saw Frame



This high-grade Hack-saw Frame takes all blades from 8 to 12 inches. Bright finish. Price, each.....\$1.00

Flexible Back Hack-Saw Blades



These blades are soft on the back with the tooth edge tempered.

They have the proper temper for the work required of them. 16 tooth, solids; 22 tooth, heavy tubing; 26 tooth, light tubing.

Prices, doz., 8-inch, \$1.20; 9-inch, \$1.35; 10-inch, \$1.50; 12-inch, \$1.90

All prices in this catalogue are net.

Bicycle Locks



No. 4026

Black, two keys, 10 in. chain.

Price, each 25c



No. 205

Made of cast brass, best value of chain lock for the price. 16-in. brass chain.

Price, each 35c



No. 790

Bronze Sprocket Lock.
Price, each 45c



No. 718

Made of bronze gun metal, very strong and reliable 16-in. brass chain.

Price, each 40c

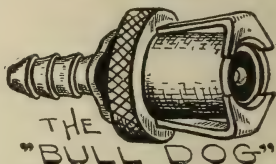
SPLENDID CRANK LOCK



No. 771

Spring opening. Spring self-locking.
Price, each 60c

BULL DOG

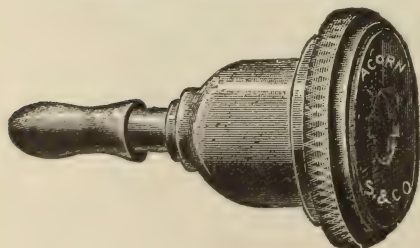


THE
"BULL DOG"

Instantaneous in action.

Price, each 15c

ACORN CONNECTION



Instantaneous. Can be attached to any pump. Will fit any valve.

Quickest, handiest, cheapest.

PRICE

Complete, each 15c
Rubber only, each 05c

KENO PUMP CONNECTIONS



Keno No. 1

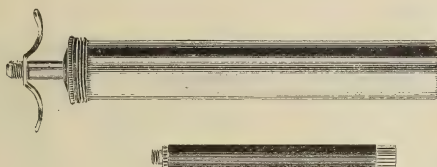
The most popular pump connection.
Price, each 15c

Keno No. 2

Good and reliable.
Price, each 15c

All prices in this catalogue are net.

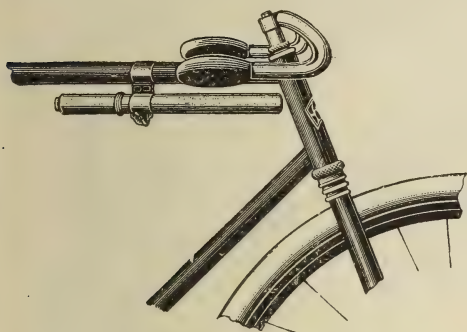
Bicycle Pumps



No. 10 HAND PUMP

Made of seamless brass, polished and nickel-plated.

Price, each..... 25c



TELESCOPE HAND PUMP

Seamless brass cylinder, polished and nickel-plated; very compact; can be fastened securely to the frame of bicycle by means of a small clip, and will not interfere with the rider. Dimensions of cylinder, $\frac{13}{16} \times 9\frac{3}{4}$ inches; total length of pump, folded ready to carry, $10\frac{1}{4}$ inches.

Price, each..... 60c

Extra hose, each..... 15c

Extra Clips, each..... 10c

BLUEMEL'S CELLULOID PUMPS

Something new. Very attractive. Will sell at sight.

Reliable



Black polished celluloid, fancy handle, cylinder $\frac{11}{16}$ in. diameter, 15 in. long.

Price, complete with security clips, each..... 75c

No weight



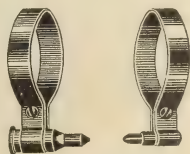
Black polished celluloid, fancy handle, monogram in gold, cylinder $\frac{7}{8}$ in. diameter, 15 in. long.

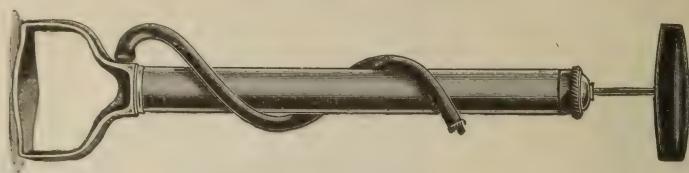
Price, complete with security clips, each..... 90c

SECURITY SPRING PUMP CLIPS

Packed one pair in a box, per pair..... 15c

All prices in this catalogue are net.





Foot Pump

No. 15

Seamless brass cylinder, polished and nickel-plated, $1\frac{1}{4}$ x 12 inches, cast foot nickel-plated, barrel reinforced at point where barrel is screwed on to base.

Rubber tubing, $\frac{1}{8}$ -inch inside diameter, can be detached from pump. Rubber tubing is well wired to connection.

Price, each..... 50c



Floor Pump

Barrel, $1\frac{1}{2}$ x 20 in. Check Valve fitted with 18 inches of hose.

Price, each, \$2.25

Hand Pump Connections



American Style No. 2

No. 2 is the standard pump connection and fits No. 10 hand pumps.

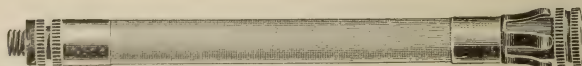
Price, each, 10c

Foot Pump Connections



Made from the very best material obtainable. These can be supplied either with one or two nipples. Price, each, 20c

Inflator Connections



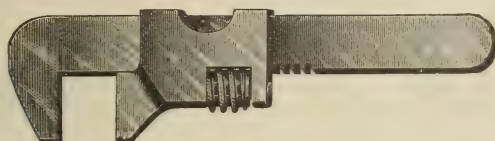
Braided Connection to fit Schrader or English Valves, each..... 15c

Best Grey Rubber to fit Schrader or English Valves, each..... 15c

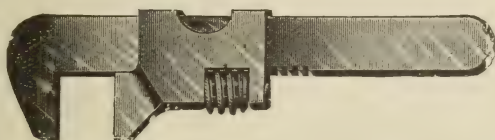
State whether for English or Schrader Valves when ordering.

All prices in this catalogue are net.

Herbrand Wrenches



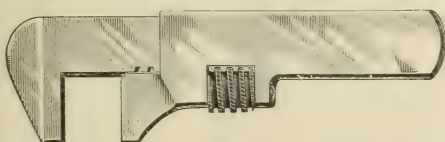
- No. 1—Mottled, same as No. 2, only has mottled finish instead of satin finish, price, each..... 15c



- No. 2—Forged from boiler plate, 1 1/4-inch jaw, tempered and satin finished. One of the best sellers in the trade, price, each..... 25c

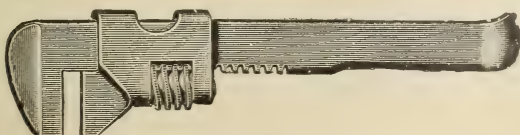


- No. 3—1/4-inch jaw, opens 1 1/2 inches, light and strong; very highly finished. A most popular model, price, each..... 30c



- No. 5—A high-class tool, accurately machined and elegantly finished. Telescoping handle, gun metal finish, price, each..... 50c

HERBRAND "AUTO" WRENCHES



Drop forged from high carbon steel, very accurately machined and well finished.

- No. 24025—9-inch, black finish, each..... 75c

All prices in this catalogue are net.

Nipple Grips

"Clifford"



PRICE

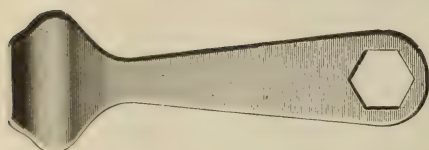
Clifford Each 13c

"Perfect"



PRICE

No. 1—Perfect.....	Each 60c
No. 2—Perfect.....	70c
No. 3—Perfect.....	80c



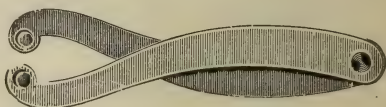
The Phoenix Tire Lever

Enables a child to remove and replace the tightest cover with perfect ease.

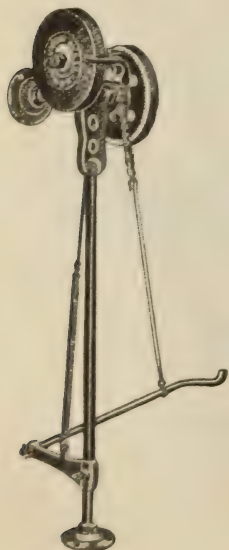
Price, each..... 10c

The "Forsyth" Adjustable Spanner Wrench

The wrench shown in the accompanying cut is made for use on cones or cases with surface adjustment. It is thoroughly adjustable to any size of cone or case that may be used, and is very strong and well nickeled.



Price, each..... 10c



Union Emery Grinder

(Foot Power)

No. 10—With emery wheel 6 x $\frac{3}{4}$ in. on $\frac{5}{8}$ shaft, each... \$8.00

This machine is gear-driven with new positive ball clutch. It is well made, with milled pinions, and cone bearings.

Height, 42 in. Weight crated, 20 lbs. Speed, 3000 to 4000 revolutions per minute.

The Barker Skate-grinding Holder

Price, each..... \$7.50

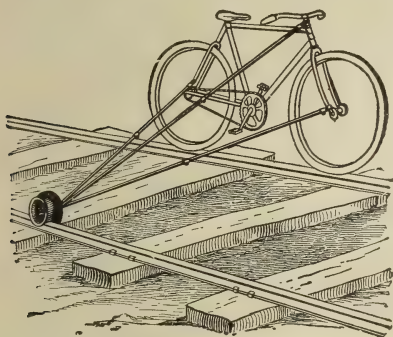


All prices in this catalogue are net.

The Harris Improved Railroad Bicycle Attachment

A reliable, well-made device that can be attached to any wheel in a few moments; will fit upon any railroad track, and run with perfect security. **Guides itself.** Front wheel is fastened stationary, so that no effort whatsoever is required to keep the machine on the tracks. **Bearings,** steel ball, frictionless. **Trolley or Guide Wheels,** made entirely of steel and cannot be broken or come to pieces. **Tires,** Rubber tires—noiseless—make no noise running on the rails, and have no resistance.

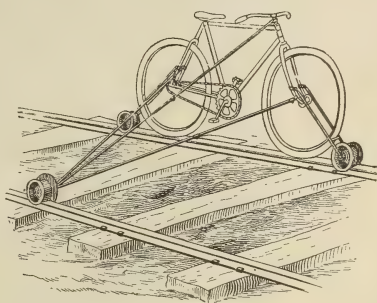
All-steel flanged wheel. Cannot be broken, and extremely light. Note simplicity of the attachment. One strong bolt holds the entire cluster in an immovable grip.



No. 1

Single guide wheel. For general riding, and the style most frequently used. Perfectly rigid and reliable. Braces telescope. Easily detached. Occupies small compass. Finish, black enamel.

Price.....\$12.00



No. 2

Three guide wheels. Wheels on machine can be raised and fastened to machine when riding on road. Balance of attachment like No. 1, telescopes, etc. Special advantage to Rail-Men, who ride both on rails and street and road, also carry tools on the track. Finish, black enamel.

Price.....\$17.50



8 1/4
faches
Tall

DISTRIBUTED BY

Uses
One
Ordinary
No. 6
Dry
Battery

Equipped
with Handle
and Bail

Delta Electric Hand Lamp

Uses one ordinary No. 6 Dry Battery

A staunch, full-sized, portable electric battery lamp that will burn 30 to 42 hours **continuously.** Floods the darkness with a brilliant shaft of light by a mere push of the thumb switch. Simple, safe, dependable and ready day or night, in any wind or weather. One battery runs the lamp for months. New batteries obtainable anywhere.....40c

8 1/2 inches high

Price, complete, each.....	\$2.00
Extra Batteries; No. 6, each.....	.40
Extra Bulbs, Delta, each.....	.25

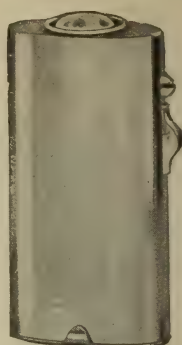
All prices in this catalogue are net.

Ever-ready Daylo Flashlights

MINIATURE VEST-POCKET FLASHLIGHTS

These lights are a wonderful little contrivance. Before the Tungsten Battery and the Madza Bulb were invented, a light as small as this was not practical. These are the smallest and most beautiful flashlights made. The case is of brass, heavily nickel-plated and highly polished. These lights are stronger than many of the larger type.

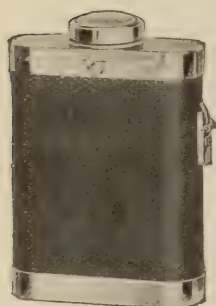
The new Tungsten Battery is an extraordinary one, for everyday use in the regular way it will last two or three months. It has four times the strength of any dry battery and it retains its strength four times longer.



No. 6961

No.	Size	Price	Battery No.	Price	Bulb No.	Price
6900	2½ x 1½ x 11⁄16	\$1.00	700	\$0.40	1179	\$0.20
6961	27⁄8 x 13⁄8 x 3⁄4	1.00	750	.40	1180	.20
6962	27⁄8 x 2 x 3⁄4	1.30	751	.45	1181	.20

REGULAR SIZE FLASHLIGHTS



Style 6903



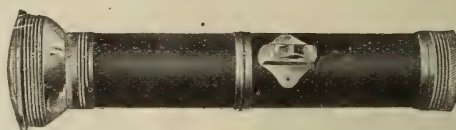
2604-2627



Bulb



Battery



Style 2616

No.	Size	Price	Battery No.	Price	Bulb No.	Price	
6903	1 x 25⁄8 x 3¼	\$1.30	703	\$0.45	1190	\$0.20	Vest
2627	1½ x 8¾	1.15	705	.50	1193	.20	Tubular
2604	1½ x 6½	1.60	790	.40	1198	.20	Tubular
2616	1½ x 6½	2.05	790	.40	1198	.20	Tubular

We sell Flashlights **absolutely unguaranteed** We receive shipments from the factory every two weeks, so that fresh goods are always on our shelves. Each Flashlight is tested before shipping, they are shipped at owner's risk, and if unsatisfactory when received we will not replace parts free of charge. We handle the Ever-ready Daylo goods and know of no other Flashlight that gives equal satisfaction.

All prices in this catalogue are net.

Ever-ready Daylo Flashlights



FOUNTAIN PEN FLASHLIGHT

Its exact imitation of a fountain pen with barrel, cap and clip, creates a new and novel departure from the ordinary type of flashlight.

"For light" press the ball of the clip—there'll be no hitch. "For no light" carry the "Fountainlight" like a fountain pen secured in the pocket with the cloth of the pocket between the clip and the casing. **Contact is then impossible**, the **cloth** acting as an insulator, thus **preventing** to a certainty the **useless consumption** of the **battery** in the pocket, a common and unfortunate occurrence with all other types of pocket flashlights.

No. 2684—Price, each	\$1.30
Extra batteries No. 706, each .....	.35
Extra bulbs No. 1179, each .....	.20

CIGAR CASE STYLE FLASHLIGHT

Here is something entirely new in a Vest Pocket Flashlight. Instead of having a hinged bottom or a removable top, they open exactly like a cigaratte case. The beauty of design as well as convenience and ease of replacing the battery and lamp are plainly shown in the cut.

When a fresh battery is inserted it is instantly apparent whether the battery terminals are in the right position to make contact with the lamp and sliding switch, saving time and trouble.

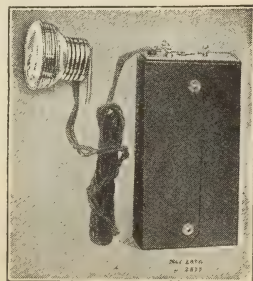


No. 6990—Size $\frac{5}{8}$ x $1\frac{1}{2}$ x $2\frac{7}{8}$ inches (complete).....	\$1.30
Renewal Tungsten Battery No. 700.....	.40
Renewal Madza Bulb 2.5 volts No. 1179.....	.20
No. 6991—Size $\frac{3}{4}$ x $1\frac{7}{8}$ x $3\frac{1}{4}$ inches (complete).....	1.30
Renewal Tungsten Battery No. 750.....	.40
Renewal Madza Bulb 2.5 volts No. 1180.....	.20
No. 6992—Size $\frac{3}{4}$ x $2\frac{3}{8}$ x $3\frac{1}{4}$ inches (complete).....	1.60
Renewal Tungsten Battery No. 751.....	.45
Renewal Madza Bulb 3.8 volts No. 1181.....	.20

CAP AND LAPEL LIGHTS

For engineers, surveyors, campers miners, bands, etc. Lamp fastens to cap or coat; battery is carried in pocket. Gives brilliant light. Cap lights have lens and reflector.

No. 2876—Cap Light with 5-cell battery	\$6.25
Renewal Tungsten Battery No. 731 .....	.95
Renewal Mazda Bulb No. 1195 .....	.20

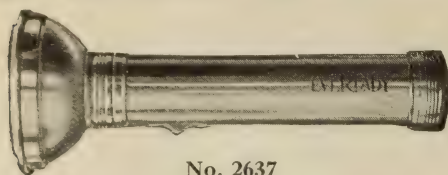


All prices in this catalogue are net.

Ever-ready Daylo Flashlights

PORTABLE SEARCHLIGHTS

Strong, powerful and lasting, these searchlights are built especially for all who need a portable light of great penetrative power.



No. 2637



No. 2659

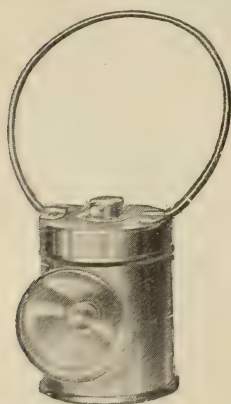
No. 2659—Size $1\frac{1}{2} \times 8\frac{1}{2}$ inches.....	\$4.15
Renewal Tungsten Battery No. 705..	.50
Renewal Mazda Bulb No. 1193 .....	.20
No. 2637—Size $1\frac{1}{2} \times 8\frac{1}{2}$ inches.....	4.25
Renewal Tungsten Battery No. 705..	.50
Renewal Mazda Bulb, $\frac{3}{8}$ Volt, No. 1193 .....	.20

ELECTRIC HOUSE LAMPS



No. 4706—Nickel-plated.	
Size $4 \times 2\frac{3}{4} \times 2\frac{1}{2}$	\$2.95
Renewal Tungsten Battery	
No. 703.....	.45
Renewal Mazda Bulb No.	
1190.....	.20

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1199.....	.20

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A big, handsome lantern of the greatest usefulness to farmers, watchmen, storekeepers, campers, sportsmen, motorboatist, yachtsmen, delivery men, and all others who work in the dark.

✱ The Every-ready Search Lantern is perfectly safe—it cannot start a fire, even in hay or gasoline. It cannot blow up or blow out, is storm and wind proof, and is absolutely clean. It has a powerful parabolic reflector that throws a brilliant penetrating stream of light a long distance.

It is 6 in. high, finished in full nickel, and has a convenient bail handle.

No. 4702—Search Lantern.....	\$6.95
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All prices in this catalogue are net.

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Any post office within 20 miles* including place of mailing.....	\$0.05	\$0.06	\$0.07	\$0.08	\$0.10	\$0.12	\$0.14	\$0.16	\$0.18	\$0.20	\$0.22
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Any post office in Ontario or Maritime Provinces.....	.10	.16	.22	.28	.34	.40	.46	.52	.58	.64	.70
Any post office in Manitoba12	.20	.28	.36	.44	.52	.60	.68	.76	.84	.92
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